Science Past Papers 2026-2000

Science Past Papers 2026

- "Knot" is a unit of speed? **Ship**
- What is the symbol of Potassium? **K**
- What is silicon dioxide primarily known as? **Sand**
- “Poly-amide” is commonly called? **Nylon**
- John Loggie Baird is the inventor of? **Mechanical TV**
- In cellular respiration, what is the main source of energy? **Glucose**
- What is the power of radiations emitted by a star called? **Luminosity**
- Between noble gases, which type of bonding is present? **No chemical bonding**
- An air mass moves from where? **High to low pressure**
- What does the first trophic level refer to? **green plants**
- What is the major component of natural gas? **Methane**
- An anion carries what type of charge? **Negative**
- What is LPG a mixture of? **Propane and Butane**
- Biogas is a mixture of? **Methane and CO2**
- Metabolism is related to which disease? **Diabetes**
- The end product of glycolysis is? **Pyruvate**
- How much energy is transferred from one trophic level to the next level in a food web? **10%**
- Which one is not a fundamental particle? **Neutron**
- The voltage generated during operation in an electric car, which opposes the applied voltage, is known as? **Back EMF**
- In which part of the body is maltose converted to Glucose? **Small intestine**
- Compared to S waves in an earthquake, P waves have a ____ speed? **Faster**
- With the emission of an electron and what is a neutron converted into a proton? **Antineutrino**
- What does the burning of fossil fuels result in? **Emission of CO2 in air**
- From which reaction is the energy that reaches us from the Sun derived? **Fusion Reaction**
- Amino acids are contained in which one of the following? **Collagen**
- Is the speed of comets higher? **Near Sun**
- How many flowers do bees have to visit to make 1-pound honey? **2 million Flowers**
- The Father of the Atom Bomb is known as? **J Robert Oppenheimer**
- The process of removing the inedible central part of seeds from a fruit is called? **Coring**
- What is the building block of both animal and plant tissue? **Cell**
- By what is protein mainly attained in Pakistan? **Pulses and Legumes**

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- What is a thick waxy outer covering used for? **Prevent water loss**
- What is the final, stable, and self-sustaining community of ecological succession? **Climax community**
- Where is brackish water usually found? **Estuaries**
- HS-1 Satellite technology is related to? **Hyperspectral Earth Observation**
- In what is the milk stored after reception? **Silos**
- Sucrose is a combination of? **Glucose+Fructose**
- Which term is formed by two or more than two populations having different species? **Community**
- Which one is the purest form of coal? **Anthracite**
- What percentage of land should be under forest to maintain the ecological system? **33%**
- What are the charged particles from the Sun coming through space called? **Solar Wind**
- The chemical nature of enzymes is? **Polypeptide**
- What is the chemical formula of Quartz? **SiO_2**
- What is the factory of ribosomes? **Nucleolus**
- Through which state of matter do S waves in earthquakes pass? **Solid**
- Plants, vegetation, and waste from living things are called? **Biomass**
- What is the bonding between molecules of water? **Hydrogen Bond**
- The planet having the highest density is which? **Earth**
- Which element is used for coating in can manufacturing? **Tin**
- Which water treatment process includes sedimentation? **Primary water Treatment**
- Which specific particle is added to smog? **Particulate Matter**
- The process of arranging classes and groups of data according to common characteristics is called? **Classification**
- Which scientist is primarily credited with the establishment of the Germ Theory of Disease, which states that microorganisms cause diseases? **Louis Pasteur**
- What is a key solution of urban flooding? **Urban drainage Reservoir**
- What type of bond is present between the molecules when solid aluminum chloride ($AlCl_3$) forms Al_2Cl_6? **Coordinate**
- Which one is physical pollutant? **Soot**
- What is the primary purpose of Ocean acidification? **Excess of Carbon Dioxide (CO_2)**
- A disorder of the system is which one? **Entropy**
- The Great Pacific Garbage Patch is called? **Marine Plastic pollution**
- What is the respiration rate of the human body? **14-18**
- The solvation and absorption of rain water underground result in the formation of? **Sink-hole**
- What rainfall intensity in one hour is considered a cloudburst? **100mm**

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- The invention of the first practical-purpose lifeboat is generally credited to? **Henry Greathead**
- In the GPS (Global Positioning System), how many satellites are there? **24**
- Primarily, the elbow joints are classified as? **Hinge joint**
- For constructing a greenhouse, which material is mainly used? **Plastic**
- For cellular activity, which bond provides/stores energy? **High-energy phosphate bond**.
- What is the main cause of Diabetes II disease? **Insulin resistance and reduced insulin effectiveness**
- The standard unit of "Intensity of Sound" is? **w/m²**

Science Past Papers 2025

- Iodine deficiency causes which disease? **Goiter**
- Radioactivity was used in physics and medicine by which scientist? **Marie Curie**
- By whom was Dynamite, a safer and more powerful explosive than gunpowder, invented? Alfred Nobel
- The ozone layer is affected by which gas? **CFCs**
- Which theory was proposed by John Dalton? **Atomic theory**
- Which hormone controls the level of blood sugar in the body? **Insulin**
- What does the term "oculist" refer to? **Eye**
- An example of a physical change is which of the following? **Ice Melting**
- At which temperature does water have maximum density? **4°C**
- What is an anemometer used for measuring? **Speed of air**
- The lightning rod was invented by? **Benjamin Franklin**
- Which vitamin, found in spinach leaves and leafy green vegetables, causes blood clotting? **Vitamin K**
- Which element is present in a large amount in seawater? **Chlorine**
- Which instrument is used to measure earthquakes? **Seismograph**
- By whom was the electric bulb invented? **Thomas Edison**
- In the cement industry, which mineral is used? **Lime stone**
- Brass is an alloy of copper and? **Zinc**
- In Hemoglobin (RBC), which element is found, and its deficiency causes anemia? **Iron**
- Fiber Optics, which are used in high-speed data transmission, were invented by? **Narinder Singh Kapany**
- What is the S.I. unit of energy? **Joule**
- What does a "Light year" measure? **Distance**
- Which of the following gases are known as greenhouse gases? **CO_2**
- Where is the double bond located in Triglyceride molecules? **Within Fatty Acid only**

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- Which largest natural satellite moon in the solar system is around Jupiter? **Ganymede**
- What scientific term is used for the attraction between two objects with mass? **Gravity**
- What is the scientific term for the quantity of matter that stays constant everywhere? **Mass**
- Which process of electricity generation does not involve a turbine? **Solar cells**
- From what is hydro-electric energy produced? **Water**
- Which one is the major source of pollution on the Earth? **Air emissions from fossil fuel combustion**
- Which gas is produced by baking soda ($NaHCO_3$), used for baking? **CO2**
- With making the first controlled and sustained powered flight, who is credited? **Orville Wright**
- Which gas is primarily responsible for the depletion of the ozone layer? **Chlorofluorocarbons**
- Which plant hormone is required for the ripening of fruits? **Ethylene**
- Any species ended in a specific ecosystem is called? **Extinct**
- The nearest galaxy to the Milky Way is what shape? **Spiral**
- What is the SI unit of charge? **Coulomb**
- Opposite to which of the following is a shadow formed? **Light**
- Between a star and a planet, what is the difference? **Light and heat**
- The hardness of water is due to the dissolved salts of? **Calcium and magnesium**
- Sleeping is essential for health due to? **Repair of cells**
- What is a nut cracker? **Lever**
- Plankton is the basic food of? **Fish**
- What is tea? **Mixture**
- Deficiency of Vitamin D leads to_____ in children? **Rickets**
- The layer that separates the Earth's crust from the mantle is called? **Moho**
- What is the name of the antiviral protein produced by virus-infected cells? **Interferon**
- By whom was the telephone invented? **Alexander Graham Bell**
- The best conductor of electricity is which? **Silver**
- In dentistry, which gas is used for sedation and pain relief? **Nitrous Oxide**
- A collection of stars, gas, and dust held together by gravity is called? **Galaxy**
- Due to what are long-term temperature and weather patterns? **Climate**
- When all sunlight passes to Earth and the moon becomes invisible, what is the phase of the moon? **New Moon**
- What is the standard voltage used in a handheld metal detector? **1.5 to 9 volts**
- By whom were microscopic organisms discovered? **Antonie van Leeuwenhoek**

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- CURRENT AFFAIRS
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- What is the outermost layer of the Earth? **Crust**
- In stainless steel, which metal is present in the maximum percentage? **Iron**
- What is the study of parasites, their hosts, and their relationships called? **Parasitology**
- In what way does fever prevent infection? **Creates an unfavorable environment for pathogens**
- What is the process through which the sun creates energy? **Nuclear Fusion**
- In all viruses, which nitrogenous base is present? **Adenine**
- What does the biological concept of "Homeostasis" refer to? **Maintaining internal stability**
- In a molten state, which of the following allows electricity to pass? **Electrolyte**
- What is the number of wavelengths passing a point per second called? **Frequency**
- Tibia and Fibula bones are present in which part? **Leg**
- Which planet has no moon? **Mercury**
- Muscles, tissues, and blood are all composed of? **Proteins**
- Inhaled air passes through which? **Bronchiole**
- Which cooling agent gas has a lower temperature than solid ice? **Liquid Nitrogen**
- In an optical fiber, light travels through the core due to? **total internal reflection**.
- What is the study of animal behavior called? **Ethology**
- Which chemical reaction happening in the Sun is responsible for heat production? **Fusion of Hydrogen to Helium**
- What is the phenomenon called when the Sun is exactly overhead at the equator? **Equinox**
- Which is a type of mineral acid? **Sulfuric Acid**
- The gallbladder belongs to which system? **Digestive system**
- What is the molecular formula of sugar (sucrose)? **$C_{12}H_{22}O_{11}$**
- Mole is the unit of? **Amount of substance**
- What gas is used for welding? **Acetylene**
- Which disease is predicted to increase significantly by 2040? **Cancer**
- Which organelle is responsible for the synthesis of proteins in a cell? **Ribosome**
- Which kind of flue mainly affects birds? **H5N1 (Bird Flu)**
- _____ is an important gland that plays a vital role in digestion by producing enzymes that break down carbohydrates, proteins, and fats, and also secretes bicarbonate to neutralize stomach acid? **Pancreas**
- Who discovered radio waves? **Heinrich Hertz**
- Which solvent is generally used in soft drinks? **Water**
- What is the main cause of deforestation? **Urbanization and agriculture**
- Which country produces the highest carbon emissions? **China**
- Which element is the most plentiful in the Universe? **Hydrogen**
- Diopter adjustment affects which part of a microscope? **Eyepiece lens**

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- What element is fixed by cyanobacteria? **Nitrogen**
- Approximately what is the blood circulation rate in human capillaries in mm/sec? **1 mm/sec**
- Which term is not employed in Physics? **Stock value**
- How many spinal nerves exist in the human body? **31 pairs**
- Who discovered that mosquitoes transmit malaria? **Sir Ronald Ross**
- Malaria is spread through? **Anopheles**
- What is the study of agriculture known as? **Agronomy**
- A picosecond is equivalent to? **10^{-12} seconds**
- The minimum speed of sound in air at 0°C is approximately? **331 m/s**
- Bu Ali Sina is renowned for his work in? **Medicine**
- What causes soil erosion? **Deforestation**
- Which enzyme is produced by the salivary glands? **Ptyalin**
- The chemical formula CH_3COOH is known as? **Acetic Acid**
- The human body has how many vertebrae? **33**
- A submarine functions according to which scientific law? **Archimedes' Principle**
- When a ball is projected vertically upward, what is the speed of the ball at its highest point? **Zero**
- In which medium does sound travel most rapidly? **Steel**
- Which salt is commonly used to melt ice on roads? **Calcium chloride**
- In the human body, the percentage of which element is the greatest? **Oxygen**
- A generator changes which form of energy into electrical energy? **Mechanical**
- The study of the Earth's atmosphere, especially in relation to weather forecasting, is called? **Meteorology**
- Oxygen was discovered by? **Joseph Priestley**
- What is the SI unit of velocity? **Meter per second (m/s)**
- What is an undesirable change in the environment called? **Pollution**
- On which planet is free oxygen available? **Earth**
- Which organ secretes insulin? **Pancreas**
- The genetic material of bacteria is stored in one circular chromosome in ____? **DNA**
- What does an increase in UV rays cause? **Skin cancer**
- Which particles cannot move from their position? **Solid particles**
- The muscles located in the posterior compartment of the thigh are collectively called the? **Hamstrings**
- What is the largest planet in the Solar System? **Jupiter**
- Selenium, a trace element, acts closely with Vitamin ____ in the body? **E**
- Steel is composed of a mixture of? **Iron and Carbon**
- Foraminifera produces? **Chalk**
- The molten or partially molten rock material found below the Earth's surface is called? **Magma**

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- Which gas in the air is the main cause of rising temperature (global warming)? **Carbon Dioxide**
- Animals and plants that are buried under the soil for millions of years are called? **Fossils**
- While hibernating, the frog breathes through _____? **Skin only**
- Silicon is used to make? **Semiconductors**
- Pasteurization is the process of heating? **Milk**
- Which is the biggest gland in the human body? **Liver**
- One nanometer is equal to? **10^{-9} meters**
- Which type of energy is produced during a fission reaction in a nuclear reactor? **Thermal Energy**
- Water sagacity refers to the wise and efficient use of water. In which area is water sagacity important? **Industrial Use, Agriculture use, Domestic use**
- In which living being are the intestines long, coiled, and supplied with many folds? **Herbivores**
- If a large number of people suffer from a disease at one place and time, it is known as? **Epidemic**
- When a star starts fusing helium into carbon, it becomes a? **Red giant**
- Which element is liquid at room temperature? **Bromine**
- Who proposed the law of gravity? **Isaac Newton**
- Which is fastest growing tree? **Eucalyptus**
- Lack of which nutrient causes goitre? **Iodine**
- What causes influenza? **Virus**
- Which exercise is commonly done to stretch the ankles and calves? **Achilles Stretch**
- What is the main purpose of the REDD+ initiative? **Reduce emissions from deforestation and forest degradation**
- What is the average distance between the Earth and the Moon? **380,000 km**
- W. K. Röntgen discovered? **X-Rays**
- Which instrument is used to measure blood pressure? **Sphygmomanometer**
- What is meant by the term Lordosis in medicine? **Hollow back**
- The Sun is classified as a yellow star. What is the approximate surface temperature of the Sun? **6,000 K**
- In which kind of cells are plastids present? **Plant Cells**
- Marsupials are mammals that carry and nurse their young in a? **Pouch**
- Kinetic energy and potential energy are which type of energy? **Mechanical Energy**
- A Thermo flask is used to maintain? **Temperature of liquids**
- Mushrooms belong to which kingdom? **Fungi**
- Dengue is what type of illness? **viral disease**
- BCG vaccination is injected to get immunity from? **Tuberculosis**
- Which acid is produced in the human stomach to aid digestion? **Hydrochloric acid**
- By which method can ordinary hard water be purified? **Boiling**

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- Which instrument is not used to measure pressure? **Galvanometer**
- One atmosphere of pressure is equal to? **760 mmHg**
- What material is commonly used for transformer windings? **Copper**
- A catalyst is used for? **Increasing the rate of a chemical reaction**
- Vaporization is the process in which what takes place? **A liquid turns into a vapor**
- Sun rays are most reflected by which color? **White**
- What is the unit of specific gravity? **No unit**
- Which branch of science deals with measuring the size and shape of the Earth? **Geodesy**
- When the Sun and Moon are at right angles to each other with reference to the Earth, the resulting tides are known as? **Neap tides**
- What is a gene? **Units of heredity**
- Autopsy is connected with? **Post-mortem**
- The isotope of hydrogen with 1 proton and 2 neutrons is? **Tritium**
- Non-renewable resources are which? **Fossil fuels**
- Which compound does milk contain? **Lactose**
- What is the densest substance on earth? **Osmium**
- What is the lens in the human eye? **Convex Lens**
- Too much presence of salts in human blood increases the risk of a heart attack, the salt is? **Sodium**
- Night blindness is caused due to the deficiency of? **Vitamin A**
- What are the Moon, Sun, and Stars known as? **Celestial bodies**
- Bodies that usually fall from the sky to the Earth are called? **Meteorites**
- Which are called shooting stars? **Meteor**
- Astronomy is the study of? **Stars**
- What is the number of ribs in the human body? **24**
- The human body contains how much blood? **5–6 liters**
- Combustible gas is which? **Hydrogen**
- In malaria, which part of the human body is affected? **Spleen**
- A positively charged particle emitted by a radioactive element is which among the following? **Alpha rays**
- Due to the increasing amount of which gas in the air is global warming occurring? **Carbon dioxide**
- What is the medicine that counteracts the effects of poison called? **Antidote**
- Whose theory of downward motion did Galileo disprove through his famous experiment while challenging views about the Earth's revolution around the Sun and its axis? **Aristotle's theory**
- The Earth's movement around its axis once in 24 hours is called "rotation"? **while its motion round the Sun once is approximately 365 days is called Revolution**
- Which is the hottest layer of the Earth's atmosphere? **Thermosphere**
- 1 micrometer (µm) is equal to how many meters? **10^{-6} meters**

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- Paleontology is the study of? **Ancient life and fossils**
- How many electrons are present in the stable outer shell of an atom? **8**
- Which gas is commonly used in tungsten filament bulbs to prevent the filament from oxidizing? **Argon**
- Who discovered penicillin, the first widely used antibiotic? **Alexander Fleming**
- How do you define detergent? **A cleaning agent**
- Which part of the brain predominantly coordinates body movement and balance? **Cerebellum**
- Which substance is most soluble in water? **Sugar**
- Who first discovered the radioactivity of uranium? **Henri Becquerel**
- A rectangle is shaped like a? **Polygon**
- In which organ of the human body are rods and cones found as receptors? **Eye**
- Which element, extracted from bauxite ore, is commonly used in containers, medicines, and cosmetics? **Aluminum**
- The process in which vapors converted in liquid is called? **Condensation**
- Which condition of the body is unable to clot blood? **Hemophilia**
- Which element is present in large quantity in seawater? **Chlorine**
- Why is ammonia used as a cleaning substance for washing garments? **Weak Base**
- Which one is invented by Berliner? **Gramophone**
- Water composition was discovered by? **Cavendish**
- The Sun is a huge ball of? **Gases**
- Heat transfer through electromagnetic waves is called? **Radiation**
- What role does the salt bridge play in an electrochemical cell? **Allow movement to maintain charge balance**
- In nuclear power plants energy is produced by? **Fission**
- Which is not a solution example? **Baking Soda**
- Which instrument is used to measure the purity of Milk? **Lactometer**
- What is the molecular geometry of sulphur dioxide, O=S=O? **Non-Linear**
- Range of Normal Calcium level in human body? **8.5-10.5 mg/dl**
- Which process is used by plants to change CO_2 and sunlight into glucose? **Photosynthesis**
- A body that survives atmospheric entry after a meteoroid and reaches the Earth's surface is called? **Meteorite**
- Which instrument is used to measure the wavelength of radiation absorbed by a leaf? **Spectrophotometer**
- Galvanometer was made on the rules of? **Electromagnetism**
- What is meant by a supernova? **Massive Steller Explosion**
- What is the scientific term for the force of attraction between two objects with mass? **Gravity**
- What is the scientific term for the quantity of matter that remains constant everywhere? **Mass**

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- Which hormone control the blood sugar level in the body? **Insulin**
- Which one is the major source of Earth pollution? **Air emissions from fossil fuel combustion**
- Hardness of water is due to the dissolved salt of? **Calcium and magnesium**
- What is the cause of goiter? **Iodine Deficiency**
- Which is the largest natural satellite in the solar system that revolves around Jupiter? **Ganymede**
- Why is sleep essential for health? **Repair of cells**
- Fiber Optics is used in high-speed data transmission invented by? **Narinder Singh Kapany**
- Which gas is released when baking soda (NaHCO3) is used in baking? **CO2**
- Who is credited with making the first controlled and sustained powered flight? **Orville Wright**
- A shadow is formed on the side opposite to? **Light**
- Which vitamin causes blood clotting, found in spinach leaves and leafy green vegetables? **Vitamin K**
- In triglyceride molecules, in which part are the double bonds found? **Within Fatty Acid only**
- Hydro-electric energy is produced from? **Water**
- Marie Curie is most famous for her work in? **Radioactivity**
- Which nitrogenous base is present in every virus? **Adenine**
- The biological concept of "Homeostasis" refers to? **Maintaining internal stability**
- What does nut cracker refer to? **Lever**
- SI unit of Charge? **Coulomb**
- Who invented the electric bulb? **Thomas Edison**
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- Phase of the moon when all sunlight passes to earth and the moon becomes invisible? **New Moon**
- Who discovered microscopic organisms? **Antonie van Leeuwenhoek**
- How fever prevents infection? **Creates an unfavorable environment for pathogens**
- What is the name of the Earth’s outermost layer? **Crust**
- Which gas is used in dentistry for sedation and pain relief? **Nitrous Oxide**
- Which metal is found in the greatest percentage in stainless steel? **Iron**
- Process through which the sun creates energy is? **Nuclear Fusion**
- Tibia and Fibula bones are present in the? **Leg**

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- What is the study of the behavior of animals called? **Ethology**
- Tea is a? **Mixture**
- From what is the maximum amount of carbohydrates obtained? **Whole grain food**
- Nitrogen is absorbed by plant roots in the form of? **NO_3^-**
- Perinatal transmission is said to occur when a pathogen is transmitted from? **Mother to infant**
- The waves which are used for line of sight (LOS) communication are called? **Space waves**
- Which class has the greatest number of animals? **Insects**
- Which of the plant group needs both land and water to complete their life cycle? **Bryophyta**
- What is the term for the conversion of an element from its organic form to an inorganic form? **Mineralization**
- What is biomagnification? **Increase in the concentration of a substance in tissues at higher trophic levels**
- Which gas is released by incomplete combustion? **Carbon monoxide**
- The _____ is the chemical decomposition of a compound caused by its reaction with water? **Hydrolysis**
- The colour of a star is an indication of its? **Surface temperature**
- What is the neem tree used for? **Medicine**
- Which has the highest amount of protein? **Egg**
- Which metal is the expensive? **Platinum**
- Which is the largest? **Galaxy**
- The resistance in an object that causes it to resist changes in its motion, whether from rest or uniform motion, is called? **Inertia**
- The Sun has burned about half of its hydrogen fuel in approximately how many years? **4.6 billion years**
- What is an individual of a species called when its number has decreased? **Endangered Species**
- Which of the following is called a derived unit? **Velocity unit**
- How many vertebrae are there in the adult human spine? **33**
- The sex nucleus that combines with another during sexual reproduction is known as? **Gamete**
- Which fish lives in extreme cold waters? **Trout**
- What is the name of pure limestone? **Calcium Carbonate**
- Air is a mixture of? **Gas**
- "Light year" is a unit of what quantity? **Distance**
- The ozone layer stops the following radiation from entering the atmosphere? **Ultraviolet**
- A cooling agent with a temperature lower than water in its solid form is _____? **Carbon dioxide**

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- Which element is found in hemoglobin (RBC), and whose deficiency causes anemia? **Iron**
- In which part of the body is fat stored? **Subcutaneous**
- Frog breathes through? **Skin**
- Oil and gas are obtained from? **Fossil fuels**
- Which is a metal? **Mercury**
- Asthma is triggered by? **Allergy**
- Which is a physical change example? **Ice Melting**
- Whom does the term "oculist" refer to? **An eye specialist / ophthalmologist**
- The process by which a substance absorbs moisture upon exposure to atmosphere is called? **Deliquescence**
- When table salt NaCl is broken? **Sodium and Chlorine ions are separated**
- Pepsinogen is changed into stomach in? **Pepsin**
- Photophobia is a fear of? **Light**
- In linguistics, the study of sounds is? **Phonology**
- A regular mobile phone uses? **Radio waves**
- _____ is not one of the functions of bones in the human body? **Secretion of hormones**
- Dry ice is also known as? **Carbon dioxide**
- Which is the protein factory for RNA? **Ribosomes**
- The largest family of cat is? **Tiger**
- What is the best source of vitamin "C"? **Orange**
- Which blood group is known as the "Universal Donor"? **O negative**.
- Which food can remain preserved for centuries? **Honey**
- Disorders of the muscles and nerves are cured by? **Vitamin E**
- What does physiotherapy deal with? **Immobility of joints and muscles**
- Milk has water? **About 87%**
- When the Sun is vertical over the equator and day and night are of equal length, the event is called? **Equinox**
- Unpaired electrons in an orbital can be determined by? **Gouy balance**
- Which organ in the human body filters blood? **Kidney**
- Women voice is loud to? **High Frequency**
- Distance between a planet and a star is measured in? **Astronomical unit**
- Heart attack is caused by? **Cholesterol**
- Height of aircraft above ground is measured by? **altimeter**.
- Human belongs to the species? **Homo sapiens**
- Breakbone fever is known as? **Dengue**
- Inflammation of the liver is? **called Hepatitis**.
- Superconductivity was discovered by? **Heike Kamerlingh Onnes**
- Which type of plants cannot prepare its own food? **Fungi**
- The systolic blood pressure in a normal human is about? **120 torr**

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- What are Detritivores also called? **Decomposers**
- What theme is Shah Hatim poetry generally based on? **Human emotions, ethics and societal issues**
- Protons and nuclei moving in space at the speed of light are known as? **Cosmic rays**
- Which part of eye detect dim light photo copier? **Rods**
- Is CRISPR/CAS9 used to alter growth in the human body? **DNA sequence**
- Dynamite, a safer and more powerful explosive than gunpowder, was invented by? **Alfred Nobel**
- Plankton is the basic food of which organism? **Fish**
- By what is radioactivity measured? **Geiger-Muller Counter**
- What do the terms "Blue dwarfs" and "Red giants" refer to respectively? **Young star and Old star**
- Which is not an essential plant nutrient? **Cadmium**
- Which activity contributes significantly to the increase in greenhouse gas emissions? **Burning fossil fuels**
- Which term refers to the variety of life forms on Earth? **Biodiversity**
- What is the term for the loss of biodiversity caused by human activities? **Extinction**
- Genome D of wheat is most probably contributed by? **T. tauschii**
- The fastest enzyme is? **Carbonic anhydrase**
- What is the process called in which meat is preserved by stewing it in a covered earthenware jug? **Jugging**
- Which is used as a stabilizer in ice cream? **Gelatin**
- In gel electrophoresis DNA is separated on the basis of? **Size**
- What are crop plants that protect the soil surface from erosion called? **Cover crops**
- As per principles of crop rotation pulses should be included in rotation to? **Help in improving soil fertility**
- Approximately 80% of the phosphorus transferred from the soil to the root surface takes place through? **Diffusion**
- Nipping in chickpea is practice used to? **Enlarge branching**
- Who is responsible for defusing explosive materials? **Bomb disposal squad**
- What is the crossing of a hybrid individual with either of its parents called? **Back cross**
- Inbreeding leads towards depression in productivity in? **Cross pollinated crops**
- Process of adding vitamins to milk is known as? **Fortification**
- Bioaccumulation means the accumulation of pollutants in which of the following? **Living organisms**
- Who invented Radio? **Marconi**
- Cholera is caused by? **Bacteria**
- The shape of our Milky Way galaxy is? **Spiral**
- What is the hereditary unit? **Gene**
- The unit of frequency is? **Hertz**

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- Which of the following is a false solid? **Glass**
- Rich sources of iodine are? **Seafood**
- John Dalton gave which theory? **Atomic Theory**
- The rusting of iron is an example of which type of reaction? **Oxidation**
- Which is the nearest planet to the Sun? **Mercury**
- Who was the inventor of the lightning rod? **Benjamin Franklin**
- What are the cells found in nerve tissue called? **Neurons**
- Astrology is the study of? **Impacts of stars on humans**
- Newton's second law of motion is also known as? **Law of acceleration**
- Ascorbic acid is also known as? **Vitamin C**
- Rickets is caused by a deficiency of? **Vitamin D**
- Which resources are non-renewable? **Fossil fuels**
- A deficiency of Vitamin E leads to? **Sterility**
- An alloy used in making heating elements for electric heating devices is? **Nichrome**
- Which of the following substances is generally destroyed in our food after cooking? **Vitamins**
- The average heartbeat per minute in a normal man is? **70**
- What happens to the weight of iron after it rusts? **Increases**
- Which planet looks reddish in the night sky? **Mars**
- On what date did NASA's Perseverance Rover touch down on Mars? **February 18, 2021**
- Food is mainly digested in? **Small Intestine**
- Light of a single color is known as? **Monochromatic**
- The normal temperature of the human body is? **98.6°F**
- Blood pressure is measured as the pressure of blood in the ____? **Arteries**
- Sensitivity to pollen is called? **Hay fever**
- CCTV cameras are used for? **Security tools**
- Which color of light has shortest wavelength? **Violet**
- Which color in the spectrum of white light has the longest wavelength? **Red**
- Fear of lightning and thunder is known as? **Astraphobia**
- Which gas is the lightest of all gases? **Hydrogen**
- What is the escape velocity from the Earth's surface? **11.2 km/s**
- Which mineral is chiefly found in Saindak? **Copper**
- A heartbeat faster than 100 beats per minute is called? **Tachycardia**
- Hemodialysis means the purification of? **Blood**
- What are the possible effects of having a blood sugar level of 250 mg/dL? **Increased thirst and frequent urination**
- What is the study of parasites, their hosts, and the relationships between them called? **Parasitology**
- Which vitamins are present in chili? **Vitamin C**
- Anemometer is used for measuring? **Speed of air**

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- What is another name for Baking Soda? **Sodium Bicarbonate**
- What is the science that studies heavenly bodies called? **Astronomy**
- Which of the following can be stored for centuries without getting spoiled? **Honey**
- In which medium does sound travel the fastest? **Steel**
- Which type of hemoglobin is found normally in adults? **Hemoglobin A**
- Animals without a backbone are called? **Invertebrates**
- Blood hemoglobin is a complex protein that is rich in? **Iron (Fe)**
- Which method of generating electricity does not use a turbine? **Solar cells**
- Which are involved in blood clotting? **Platelets**
- In which organ are plasma proteins synthesized? **Liver**
- Diamond is an allotrope of which element? **Carbon**
- Electromagnetic waves travel with? **Speed of light**
- Because of deforestation, what can increase? **Soil erosion**
- Iron sheets are galvanized by coating them with which metal? **Zinc**
- Which gas is commonly used in fire extinguishers? **Carbon Dioxide (CO_2)**
- What is the primary use of an X-ray machine at the airport? **To detect prohibited items in luggage**
- What is the SI unit of Heat? **Joule**
- Sugar in urine is called? **Glucosuria**
- Which acid is present in gastric juice of the stomach? **Hydrochloric acid**
- The BCG vaccine provides protection against which disease? **Tuberculosis**
- Which of the following is known as a greenhouse gas? **Carbon Dioxide (CO_2)**
- What is the purpose of using a signal jammer? **To disrupt radio waves**
- Which enzyme controls blood sugar by phosphorylating glucose in the liver? **Glucokinase**
- What is a seismograph used to measure? **To measure the magnitude of an earthquake**
- Which scientist used radioactivity in physics and medicine? **Marie Curie**
- Which is a non-invasive method to test blood sugar levels? **Saliva-based glucose sensor**

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- Sleeping under a tree at night is not recommended because of the release of? **Carbon dioxide**
- Hydrogen has ____ Neutrons? **0**
- What fuel is employed for gas welding? **Acetylene**
- The most important stimulant in tea leaves is? **Caffeine**
- What is the water potential of pure water? **Zero**
- The study of insect is called? **Entomology**
- Myopia is a disease associated with? **Eyesight**

- Which disease is spread through water? **Typhoid**
- The primary photosynthetic pigment is? **Chlorophyll-a**
- Iodine is required for the synthesis of? **Thyroxin**
- The blue color of the sky is due to_____ of light? **Scattering**
- The temperature of the environment rises due to? **Greenhouse gases**
- What is the process called in which larger hydrocarbons are split into smaller hydrocarbons? **Cracking**
- Which branch of biology deals with the study of life in seas and oceans? **Marine Biology**
- The process of movement of molecules from a higher concentration place to a lower concentration place is known as? **Diffusion**
- Which gas can accumulate in poorly ventilated buildings? **Radon**
- _____ is the largest emitter of carbon dioxide gas in the world? **China**
- Through what is thermal energy transferred from one substance to another without the need for any physical medium? **Radiation**
- Which gas in Chlorofluorocarbons damage the Ozone layer most? **Chlorine**
- By about how much does the volume of water increase when it changes into ice? **9%**
- Ice floats on water because of? **Density**
- Which of the following is not a vestigial organ? **Eyelids**
- Pollen grains are produced by? **Anther**
- What is the largest organ in the human body? **Skin**
- Study of the evolution of man as an animal? **Anthropology**
- Iron is a vital mineral that the body needs to produce ____? **Hemoglobin**
- The abbreviation ECG is related to? **Heart**
- Who found gravity? **Newton**
- COVID-19 is caused by? **Virus**
- What is the SI unit of electric current? **Ampere**
- Examples of magnetic materials are_____? **Iron, Nickel and Cobalt**
- The spleen is called the graveyard of? **RBC**
- Speed of electromagnetic waves is the same? **For all wavelengths**
- If a large number of people in the same place at the same time are affected by a disease, it is called? **Epidemic**
- Lunar eclipse occurs on? **Full Moon**
- Dinosaurs that existed on Earth around 150 to 200 million years ago were? **Giant reptiles**
- _____ is a male part of a flower? **Androecium**
- Which gas is used in balloons and dirigibles? **Helium**
- Which vitamin do we obtain from the sun's rays? **Vitamin D**
- White light passing through the prism splits into_____? **7**
- Through the use of what can radioactivity be detected? **Geiger counter**
- Which is unit of length? **Angstrom**

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- What is the percentage of water present in plasma? **90%**
- What is the fundamental structural unit of all plants and animals? **Cell**
- Thomas Edison is famous for his invention of? **Light Bulb**
- The most abundant metal in the Earth's crust is____? **Aluminum**
- Which vitamin is produced in our body in the presence of sunlight? **Vitamin D**
- Gold, Silver and Copper are metals? **Coinage**
- "Black Death" is the term used for? **Plague**
- Bird Flu virus is also known as? **H5N1**
- Each kidney in the human body has nearly _____ nephrons? **1 million**
- Madame Curie won the Nobel Prize in 1903 in? **Physics**
- Which theory transformed the concept of space and time? **Theory of special relativity**
- The acid used in a car battery is? **Sulfuric acid**
- Radio waves frequency is measured in? **Hertz**
- A _____ is a device used to measure pressure in a fluid, typically a gas or liquid? **Manometer**
- The average lung's capacity is about? **6 liters**
- Who invented the telephone? **Alexander Graham Bell**
- A woman's voice is shriller than a man's voice, due to? **Higher frequency**
- Which alkali is used as the electrolyte in alkaline batteries? **Potassium hydroxide**
- In order to have a very wide field of view, the mirror used in cars is? **Convex**
- _____ are the animals that feed on both plants and animals? **Omnivores**
- What is the basic unit used in the manufacture of bodies and transistors? **Silicon**
- What is the function of a capacitor? **Store electrical energy**
- Greenhouse gases cause? **Global warming**
- A solid can be changed directly into the gaseous state. This process is called? **Sublimation**
- Which is the hardest substance in the human body? **Tooth Enamel**
- Most of the ozone in the atmosphere is concentrated in the? **Stratosphere**
- Tides are caused by the gravitational pull of the? **Moon, Sun**
- Soda water was invented by? **Joseph Priestley**
- _____ is the most readily malleable metal? **Gold**
- What is the study of reptiles called? **Herpetology**
- The blood volume of an average adult is about? **5 liters**
- The color of a star indicates its? **Temperature**
- Which planet is the most massive in our solar system? **Jupiter**
- The volume of an atom is calculated by using? **Atomic radius and formula for volume of a sphere**
- What is the soft type of coal used in power generation called? **Lignite**
- The International System of Units (SI) has _____ base units of measurement? **Seven**
- What defends the body against infectious diseases and infections? **Leukocytes**

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- The study of human population and things that affect them is called? **Demography**
- Which invention is linked with the name of Robert Watson-Watt? **Radar**
- The theory of evolution was given by who amongst these? **Charles Darwin**
- Which is the farthest planet in our solar system? **Neptune**
- The energy stored in coal is classified as? **Chemical Energy**
- One Horse Power is equal to how many watts? **746 W**
- What is the Freezing point of water at Fahrenheit scale is? **32°F**
- What is the SI unit of electric charge? **Coulomb**
- Which is the longest bone in the human body? **Femur**
- Due to what does the Earth attract objects toward itself? **Gravity**
- What is the SI unit for temperature in the standard system? **Kelvin**
- Who gave the Laws of planetary motion? **Johannes Kepler**
- What is used to speed up a chemical reaction? **Catalyst**
- Which is the brightest planet in the solar system? **Venus**
- Who invented the typewriter? **Christopher Latham Sholes**
- The propulsion of a rocket in the upward direction is based on which principle? **Conservation of Momentum**
- Sulphur dioxide (SO_2) and nitrogen oxides (NO_2) are responsible for? **Acid rain**
- Which of the following is used to measure the brain's electrical activity? **Electroencephalogram(EEG)**
- Threadlike structure in fungi is called? **Hyphae**
- From which part of the human body does a doctor check blood pressure using a sphygmomanometer? **Brachial artery**
- What is the hardest type of coal commonly used in industries? **Anthracite**
- The study of fossils is known as? **Palaeontology**
- What is an object that orbits a planet called? **Satellite**
- Celsius (°C) is the unit of which of the following? **Temperature**
- Mercury thermometer was invented by? **Fahrenheit**
- The ozone layer protects the Earth from? **Ultra violet rays**
- Which term is used for a species that has no living individuals left? **Extinct**
- For what achievement did James Chadwick receive the Nobel Prize in 1935? **Discovery of the neutron**
- Thalassemia is caused by an abnormality in? **Hemoglobin**
- What is the scientific study of disease known as? **Pathology**
- The number of babies produced per 1000 population? **Natality**
- Which solution can be used as electrolytes? **Sodium Chloride (NaCl)**
- The span of short-term memory usually lies between? **15 to 30 seconds**
- A device that converts mechanical energy into electric energy is called? **Generator**
- A solar cell converts solar energy into? **Electrical energy**
- Sound is classified as which type of wave? **Mechanical wave**
- A stone is a unit of which kind of measurement? **Weight**

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- The study of stars and other celestial objects is known as? **Astronomy**
- ____ is a solution of salt in water, usually sodium chloride dissolved in water? **Brine**
- Refractometer is used to determine? **Sugars**
- Which energy source is nonrenewable? **Nuclear energy**
- A geographic area containing plants, animals and other organisms interacting with each other and their environment forming a bubble of life is called? **Ecosystem**
- Lysosomes are membrane-bound vesicles that come from the ____? **Golgi apparatus**
- The synthesis of an RNA molecule from DNA is called? **Transcription**
- Roughly what percentage of carbonated drinks is water? **92%**
- Molten rock beneath the Earth's crust is called? **Magma**
- What is the process called in which one cell engulfs another cell? **Phagocytosis**
- The ozone layer is found at an altitude of _____ kilometers above the Earth's surface? **20 to 30**
- The mean lifespan of red blood cells is? **120 days**
- Cataract is a disease that affects which organ? **Eye**
- ____ responsible for the communication system of body? **Neurons**
- Which process is used to convert digital signals into analog signals for transmission over communication channels? **Modulation**
- At which temperature does water attain its maximum density? **4°C**
- The best suitable material for the heating element is? **Nichrome**
- Which type of energy is generated in the nuclear fission reaction in a nuclear reactor? **Thermal energy**
- Which metal stays liquid at room temperature? **Mercury**
- The infrared radiation by sun are strongly absorbed by? **Water vapors**
- Study of interaction of living organisms with other organisms and their environment relates with? **Ecology**
- Stephen Hawking was afflicted with which disease? **Amyotrophic Lateral Sclerosis (ALS)**
- What is the unit used to measure the distance between stars? **Light Year**
- Which is the largest gland in the human body? **Liver**
- The capacity to do work is called? **Energy**
- Which endocrine gland requires iodine to synthesize a particular hormone whose deficiency may cause goitre disease? **Thyroid gland**
- A blood clotting disorder is? **Hemophilia**
- Muscle fatigue is caused by the buildup of? **Lactic Acid**
- By what mechanism does scent spread all over the room if the lid is opened? **Diffusion**
- Sound travels fastest through which medium? **Solid**
- Which term describes the amount of blood the heart pumps with each beat? **Stroke volume**
- In the technical terms, muscle pull is known as? **Strain**

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- The process of releasing mature ovum from the ovary is called? **Ovulation**
- A rainbow is formed when light passes through? **Water droplets**
- The deficiency of _____ in the body causes the deterioration of bones and teeth? **Calcium**
- The principle by which blotting paper absorbs water is? **Capillary action**
- A battery converts _____ energy into electrical energy? **Chemical**
- Hydrophobia is a feature of which disease? **Rabies**
- What is the SI unit of magnetic induction called? **Tesla**
- Trachoma is a disease that affects the? **Eye**
- The deep Blue Sapphire or Neelam gemstone, as it is popularly known, comprises of? **Aluminium Oxide**
- Which gas is flammable? **Hydrogen**
- Who is the author of the Life Began with Life (biogenesis)? **Louis Pasteur**
- Which is the lightest metal? **Lithium**
- A pinhole camera consists of _____ lens? **0**
- Ophthalmology is the field of medicine concerned with the study of? **Eyes**
- Who gave the Laws of Motion? **Isaac Newton**
- What was the main disadvantage of vacuum tubes? **They produced heat and often burned out**
- The cubic meter is the International System of Units (SI) unit for? **Volume**
- When light passes from one medium to another, this phenomenon of change in its direction is called? **Refraction**
- Which gas is found in the greatest proportion in the air? **Nitrogen**
- Modern system of classification classified organisms in _____ kingdom? **5**
- What is the SI unit used for measuring force? **Newton**
- The study of the structure of the atom is known as? **Atomic Physics**
- Amnesty International is an organization that works for? **Protecting human rights**
- Antibodies are made up of? **Proteins**
- Salt-tolerant plants are called? **Halophytes**
- The study of life or living organisms is called? **Biology**
- A walking stick is generally made from which material? **Bamboo**
- A doctor who treats children is called? **Pediatrician**
- The recovery position is for a person who is unconscious and? **Breathing normally**
- Electromagnetic radiation with maximum wavelength is? **Radio waves**
- When responding to a road accident, the top priority is to? **Secure the scene to prevent further injuries**
- If output voltage is greater than input voltage, then transformer is? **Step up**
- If a diabetic patient has hypoglycemia (low blood sugar), it is useful to give them? **Sugary drink or food**
- The voltage signal which is generated by microphone is called? **Analogue**
- Solar energy is released in the form of? **Electromagnetic waves**

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- The basic circuit element in a DC circuit is? **Resistor**
- Severe bleeding during an injury is caused by a deficiency of? **Vitamin K**
- Albert Einstein was a? **Physicist**
- The third most abundant gas present in the air we breathe is called? **Argon**
- The metal used in making batteries is? **Zinc**
- _____ is one of the most common chemical food preservatives? **Sodium Benzoate**
- The chemical name of the main sugar found in sugarcane is? **Sucrose**
- The study of human body cells is called? **Cytology**
- Myopia can be corrected with the use of? **Concave lens**
- The adult human body normally contains _____ bones? **206**
- _____ waves are used by the common TV remote control? **Infrared**
- The human cell contains _____ number of chromosomes? **46**
- What is the magnitude of acceleration due to gravity at the Earth's surface? **9.8 m/s^2**
- _____ is the primary energy currency of the cell? **Adenosine triphosphate**
- Which is the biggest artery in the human body? **Aorta**
- The approximate value of the speed of sound in air at 0°C temperature? **331.5 m/s**
- What is the total percentage of nitrogen present in air? **78.6%**
- A device that stores electrical energy in an electric field is called? **Capacitor**
- Which naturally occurring substance on Earth is the hardest and the least compressible? **Diamond**
- Which chemical is commonly used in household bleach? **Sodium hypochlorite**
- What is the molecular formula of baking soda? **$NaHCO_3$**
- What is the average distance between the Sun and the Earth? **150 million km**
- Goitre occurs because of the deficiency of? **Iodine**
- Which hormone contains iodine? **Thyroxine**
- At ordinary atmospheric pressure, what is the melting point of ice? **0°C**
- _____ is used as a disinfectant to prevent the spread of illness and disease? **Bleach**
- Which planet has the highest number of moons? **Saturn**
- The blue colour of the clear sky is due to? **Scattering of light**
- What temperature on the Kelvin scale represents absolute zero? **0 K**
- Maintenance of soil fertility without addition of extra nutrition is due to? **Microbial activity**
- In what does protein synthesis take place? **Ribosomes**
- _____ is commonly used in carbonated drinks to make them fizzy? **Carbon dioxide**
- Who discovered Penicillin? **Alexander Fleming**
- Which planet is known as the Red Planet? **Mars**

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- Optical fibre operates on the principle of? **Total Internal Reflection**
- What are non-flowering plants called? **Cryptogams**

- Vaccination was discovered by? **Edward Jenner**
- The unit of heredity is? **Gene**
- The gas commonly referred to as laughing gas is? **Nitrous Oxide**
- Which gas is used as a coolant in a refrigerator? **Chlorofluorocarbon**
- Which element comes first in the periodic table? **Hydrogen**
- The law of magnetic induction was proposed by? **Michael Faraday**
- The reaction between an acid and a base produces? **Salt & Water**
- What does our brain need the most? **Glucose**
- How many times does a normal man breathe per minute? **14–18 times**
- Sunlight can penetrate the ocean to a depth of _____ meters? **200 m**
- Duodenum and jejunum are part of? **Small Intestine**
- Who is regarded as the Father of Geometry?**Euclid**
- Cooking oil can be changed into vegetable ghee by the process of? **Hydrogenation**
- Standard blood pressure measured in millimetres of mercury is? **120/80 mmHg**
- The phases of the moon occur because? **We can see only that part of the moon which reflects light towards us**
- What is the number of bones in a newborn baby? **300**
- Solar plate consists of what type of cell? **Photo voltaic cell**
- What is used as an electrode in the dry cell? **Graphite**
- Which quantity is not a vector quantity? **Speed**
- Cosmology is the study of? **Universe**
- On what does the boiling point of water depend? **Atmospheric pressure**
- The study of tissues is called? **Histology**
- The gases employed in various welding processes include? **Oxygen and acetylene**
- Which element is present in the greatest amount in the human body? **Oxygen**
- Which nutrient has the highest calorific value? **Fats**
- Which part of the camera corresponds to the retina in the human eye? **Film**
- Who found the force of attraction or repulsion? **Coulomb**
- Which gas is most harmful to the ozone layer? **Chlorofluorocarbon**
- What took the place of vacuum tubes? **Transistor**
- What is the formula of sugar? **$C_{12}H_{22}O_{11}$**
- When was the cell phone invented by Martin Cooper? **1973**
- The normal average heart rate per minute in an adult? **70–80 times**
- The telephone was invented by? **Alexander Graham Bell**
- Atmospheric pressure is measured by? **Barometer**
- _____ is a device used to measure a small electric current? **Galvanometer**
- The centrosome produced the? **Spindles**
- Light takes about ____ to reach Earth from the Sun? **8 Minutes**
- The unit of gas bill is? **BTU**
- _____ is the isotope of hydrogen that has 1 proton and 2 neutrons? **Tritium**
- What is the Central Nervous System composed of? **Brain and spinal cord**

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- DNA structure was discovered by? **Watson and Crick**
- What organ produces bile? **Liver**
- Beekeeping is called? **Apiculture**
- One unit of electricity is exactly equal to? **1 kilowatt-hour**
- Which type of element has properties of metals and non-metals? **Metalloid**
- "LNG" refers to? **Liquefied Natural Gas**
- Which is the most abundantly found metal in the Earth's crust? **Aluminium**
- The amount of pressure in the arteries during the contraction of heart muscle is called? **Systolic blood pressure**
- Deficiency of vitamin C causes _____ disease? **Scurvy**
- What organ stores bile? **Gall Bladder**
- Which helps prevent tooth decay? **Fluoride**
- The imaginary line around an object about which it rotates is called? **Axis of rotation**
- The gas that filled the electric bulb is? **Nitrogen**
- The rate at which displacement changes is called? **Velocity**
- Vessels that are one cell thick are called? **Capillaries**
- Which transport oxygen throughout the body? **Red Blood Cells**
- Formic acid is derived from? **Ant**
- Enzymes are composed of? **Proteins**
- The Solvay process is used for the production of? **Sodium carbonate**
- The substance that acts as both an acid and a base in nature is called? **Amphoteric**
- Which of the following can burn? **Hydrogen**
- Which chamber of the human heart gets oxygenated blood? **Left atrium**
- Milk pasteurization depends on? **Temperature, Time**
- The scientific name of a frog is? **Rana Tigrina**
- Which contains the maximum amount of water? **Fruits**
- The cell wall of plant cells is made up of? **Cellulose**
- The total capacity of the lungs is about? **6 liters**
- Which planet was removed from the list of planets in the solar system? **Pluto**
- Brass becomes discoloured in air due to the presence of which gas in the air? **Hydrogen Sulphide**
- In 1956, DNA polymerase was discovered in the cell of? **E. coli**
- The least count of a Vernier caliper is? **0.1 mm**
- Robert Bunsen was the inventor of? **Bunsen Burner**
- Most metals at room temperature are in the state of? **Solid**
- _____ are caused by the attraction between oppositely charged ions? **Ionic bond**
- The rate at which temperature falls with increasing altitude is known as the? **Lapse rate**
- Why is cobalt-60 used for the treatment of cancer? **Emit Gamma rays**
- What are the charged particles from the sun that travel through space at high speed called? **Solar wind**

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- Which of the following gases plays an important role in maintaining atmospheric temperature? **Carbon dioxide**
- The Moon's gravity in comparison with the Earth's is? **1/6**
- What type of material is used in a pencil? **Graphite**
- The structures responsible for protein production in cells are? **Ribosome**
- The escape of water from the surface of water is? **Evaporation**
- Which one is not a monosaccharide? **Lactose**
- Organic compounds released directly into the blood and carried to target tissues are? **Hormones**
- Who discovered chromatography? **Mikhail Tsvet**
- Hemoglobin is dissolved in? **Water**
- The 4th state of matter is? **Plasma**
- Kidney stones are primarily formed by which compound? **Calcium Oxalate**
- Electron was discovered by? **J.J Thomson**
- The size of animals and plants increases by? **Mitosis**
- Which is the earliest freezing method? **Brine freezing**
- Bakelite is a? **Insulator**
- Butter and margarine are _____ by nature? **Colloid**
- The amount of blood pumped by the heart during each heartbeat is called? **Stroke volume**
- _____ is the most abundant mineral in the body? **Calcium**
- Hemodialysis is a procedure of? **Cleaning blood**
- The unit of pressure is? **Pascal**
- Deficiency of Vitamin D in our body leads to? **Rickets**
- In which year did the Pasteur Institute, a worldwide biomedical research organization, first isolate HIV, the virus that causes AIDS? **1983**
- The percentage of water present in plasma is? **90%**
- Separating water into hydrogen and oxygen is an example of a? **Decomposition**
- Zika virus is a mosquito-borne virus that was first identified in the forest of? **Uganda**
- Soap and detergents remove dirt from clothes due to? **Inter facial tension**
- The cell theory was proposed by? **Matthias Schleiden and Schwann**
- How many planets are there in our solar system? **8**
- Venus indicated the direction of? **East**
- What is the exoskeleton of a marine snail composed of? **Calcium Carbonate**
- A device that is used to measure the moisture content in the atmosphere is called a? **Hygrometer**
- In eye donation, which part of the eye is used? **Cornea**
- Which gas is used in a fire extinguisher? **Carbon dioxide**
- Some heavenly bodies that do not possess their own heat and light are known as? **Planets**
- Which one is non-biodegradable? **Nylon**

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- Who developed the first known printing press? **Johann Gutenberg**
- Who found out the circulation of blood? **William Harvey**
- The temperature of liquid nitrogen is? **-196 °C**
- The fundamental unit of plants and animals is? **Cell**
- The study of insects is known as? **Entomology**
- Friction can be decreased by changing from? **Sliding to rolling**
- The opposite process of photosynthesis is called? **Respiration**
- What causes 90% of lung cancer cases? **Tobacco Smoking**
- Granite is a _____ kind of rock? **Igneous**
- What is the name of the plant that grows on another plant? **Epiphyte**
- What is a disease that occurs in a particular place and time called? **Epidemic**
- A swimmer reduces friction between their body and _____ to make their movement streamlined? **Water**
- What is the most prominent color of the Earth when seen from space? **Blue**
- The part of the plant that produces pollen is? **Anther**
- What are the primary colors of light? **Red, Green & Blue**
- During which season do reptiles hibernate? **Winter**
- Which factor is the most important in causing mass movements? **Water content**
- Which material is not used for the purpose of explosion? **Gold**
- The color of plants other than green is due to plastids known as? **Chromoplast**
- Milk has a pH of? **6.5**
- Which one is used for water purification? **Reverse Osmosis**
- Gastric juice is a fluid produced within the stomach lining and has a pH value of about? **3**
- It appears that the Solar System is moving around the galaxy at a speed of? **200 KM/S**
- An antioxidant is a substance which will? **Protect cells against the radicals**
- In general, cancer in the human body is caused by changes in? **DNA**
- The largest species of the cat family is? **Tiger**
- The liquid component of blood is called? **Plasma**
- The phenomenon in which molecules of the atmosphere produce color when they return to the ground state after being ionized by solar wind is called? **Aurora**
- Which layer of the atmosphere is responsible for filtering out ultraviolet radiations from the Sun? **Stratosphere**
- Which of the following is an example of the condensation of water? **Dew forming on grass during a cold night**
- Microorganisms that cause disease are referred to as? **Pathogens**
- The human brain weighs about ___ of the total body weight? **2%**
- The image in the James Webb Space Telescope is formed due to? **Infra-Red Rays**
- A scientific explanation backed by a large amount of evidence is known as? **Theory**
- A solar eclipse occurs when? **The Moon is between the Sun and Earth**

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- Which pure substance is composed of two or more kinds of atoms or elements? **Compound**
- The point below the Earth's surface where an earthquake begins is called? **Hypocenter**
- Fuel used in a fast breeder reactor is? **Uranium Plutonium Oxide**
- In a vehicle engine, the energy utilized during the burning of gasoline is? **Chemical**
- Soil contamination is caused by? **Acid rain**
- The term "Xerostomia" refers to? **Dry mouth**
- Which of the following is a pseudo-solid? **Glass**
- Which law of thermodynamics states that energy can neither be created nor destroyed, but can be transformed from one form to another? **First law**
- An antibiotic is a medicine used to treat infections caused by? **Bacteria**
- The smallest bone in the human body is? **Stapes**
- An enzyme is a chemical substance present in living organisms; it is a? **Protein**
- A "Cyclone" is caused due to? **Low pressure**
- Fathom is a unit used to measure? **Depth**
- Day and night are formed due to the Earth's rotation on its axis from? **West to East**
- Genetically modified bacterium is produced when a bacterium takes in? **Recombinant DNA**
- Which type of mirror can produce an image larger than the object? **Concave**
- For anticlockwise rotation, the direction of angular velocity is? **Positive**
- The slope of a velocity-time graph gives? **Acceleration**
- Ozone depletion is due to? **Chlorofluorocarbons (CFCs)**
- The scientist who proposed the Uncertainty Principle was? **Heisenberg**
- Control rods inserted in the reactor are made of which metal? **Cadmium**
- Mach number is used to describe the speed of? **Aircraft**
- What stays constant in simple harmonic motion? **Time Period**
- A transistor is what kind of device? **Semi-Conductor (Computer)**
- The process in which no heat enters or leaves the system is called? **Adiabatic**
- The study of the relationship between living organisms and their environment is called? **Ecology**
- The chemical formula of methane gas is? **CH_4**
- Newton's second law of motion is also called? **Law of acceleration**
- All changes in the weather are caused by the? **Sun**
- In covalent bonding, the electrons of two atoms? **Share with each other**
- Night blindness is caused by a deficiency of? **Vitamin A**
- Ice has a density of? **0.9 g/cm³**
- Which sugar is called cane sugar? **Sucrose**
- Isotopes differ from each other due to? **Number of neutrons**
- Which bacterium is resistant to penicillin because it does not have a cell wall? **Mycoplasmas**

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- Which among them is a tissue? **Blood**
- What is the filament of an electric bulb made of? **Tungsten**
- A ripened ovary or fertilized ovary is called? **Fruit**
- Torque is a____? **Vector quantity**
- Diamond is an allotrope of? **Carbon**
- The triple point of water is_____? **273.16 K**
- The image formed by holography is? **3-Dimensional**
- Which plants grow in salty soil? **Halophytes**
- Which law of motion is also known as the law of inertia? **1st Law**
- What percentage of water is present in our body? **70%**
- A transformer operates on? **AC supply**
- A branch of physics that deals with motion without considering its causes is known as? **Kinematics**
- Ibn al-Haytham famous for? **Optics**
- Which planet is closest to the Sun? **Mercury**
- Work done on a body is_____? **scalar quantity**
- The total number of bones in the human spinal column are? **33**
- Each level in a food chain is known as a? **Trophic level**
- The organic matter in the soil is called? **Humus**
- Ali bin Isa al-Kahhal was renowned in? **Medicine**
- Jabir Bin Hayyan is famous for? **Chemistry**
- Liquid hydrocarbons may be changed into a mixture of gaseous hydrocarbons by? **Cracking**
- Which substance is the best conductor of electricity? **Silver**
- The best tool for the study of cytology is? **Microscope**
- Blood pressure readings below _____ mmHg (millimeters of mercury) are considered to be within the normal range? **120/80**
- Why do objects look black? **All colours are absorbed by the object**
- Prophylactic is intended to? **Prevent disease**
- What is the number of neutrons in hydrogen? **0**
- The light of a single color is called as? **Monochromatic**
- Who put forward the laws of planetary motion? **Johannes Kepler**
- Small leaves having a single unbranched vein are called? **Microphylls**
- A transformer operates on the principle of? **Mutual Induction**
- Deficiency of _____ causes diabetes? **Insulin**
- COVID-19 is caused by? **Virus**
- Largest organ of the body is? **Skin**
- LASER is what type of light? **Coherent**
- The blue appearance of the sky is caused by? **The scattering of sunlight by the atmosphere**
- Electric current is measured in? **Ampere**

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- In what does sound travel fastest? **Solid**
- In photosynthesis, the green color of plants is due to which pigment? **Chlorophyll**
- Margarine is produced by the process of? **Hydrogenation**
- Which acid is used in the battery? **Sulfuric Acid**
- Gases utilized in welding are? **Oxygen and Acetylene**
- Measure the distance between star and planet is? **Light year**
- Which vitamin cannot be retained in the human body? **Vitamin C**
- Tritium is an isotope of? **Hydrogen**
- The basic unit of heredity is called? **Gene**
- What is the study of life called? **Biology**

Science Past Papers 2022

- The luminous body gives off_____? **Light**
- Nitrogenous waste excreted through urine in humans is? **Urea**
- The powerhouse of the living cell is called? **Mitochondria**
- What is the SI unit of temperature? **Kelvin**
- Which mirror is used in car headlights? **Concave**
- Water covers _____ % of the Earth's surface? **70**
- Acetic acid is commonly used in households as? **Vinegar**
- Ozone layer above the Earth's atmosphere? **prevents ultraviolet rays from sun**
- The element used to manufacture solar cells and transistors? **Silicon**
- Which disease is caused by consuming contaminated water? **Typhoid**
- In filtration plants, _____ is used to destroy bacteria? **Chlorine**
- The release of water molecules from the surface is called? **Evaporation**
- When nuclear energy expands, it converts? **Nuclear into thermal**
- Which type of mushroom is not edible? **Amanita Phalloides**
- The electron was discovered by? **JJ Thomson**
- Which gas is used in the manufacture of Banaspati Ghee? **Hydrogen**
- Smoke from industries causes? **Smog**
- The atomic number of hydrogen is? **01**
- Penicillin antibiotic is derived from? **Fungi**
- Leukemia is a disease that affects the? **Blood**
- What is the velocity of sound in air? **331 m/s**
- During a complete solar eclipse, there is most likely to be? **A decrease in the rate of photosynthesis**
- Asteroids are _____ that belong to our solar system? **Rocky bodies**
- Carbohydrates are stored in plants and animals in the following forms, respectively? **Starch and glycogen**
- Instrument used to measure vapors in the atmosphere? **Hygrometer**
- Who created dynamite? **Alfred Nobel**

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- A balloon is filled with? **Helium**
- Water and salt are produced by the reaction of an acid with? **Base**
- Blood group is determined by? **Antigens**
- The first working laser was developed by? **Theodore Maiman**
- The product of mass and velocity is _____? **Momentum**
- Which one is herbivorous? **Cow**
- Who invented the mercury thermometer? **Daniel Gabriel Fahrenheit**
- Which gas is found in bulbs? **Argon**
- What are the three different modes of heat transfer? **Conduction, convection, radiation**
- The Big Bang theory was put forward by? **Georges Lemaitre**
- As the temperature rises, resistance decreases in_____? **Semi-Conductor**
- _____ is the process that fuels the Sun and the stars? **Nuclear Fusion**
- What is the SI unit of heat? **Joule**
- The speed of sound is the lowest in? **Air at 0°C**
- What is the hardest thing in the human body? **Dental enamel**
- Car batteries use _____ that reacts with lead plates to produce electricity? **Sulphuric Acid**
- Bauxite is an ore of? **Aluminum**
- Chemical substances that raise the Earth's surface temperature are known as? **Greenhouse gases**
- What is the study of stars known as? **Astronomy**
- A black hole's extremely high escape velocity is due to? **High density**
- Huge clouds made up of dust and gas in space are called? **Nebula**
- How much carbon dioxide does a mature tree absorb from the atmosphere each year? **22 kg**
- A capacitor is a device which? **Stores charge**
- As altitude increases, air pressure? **Decreases**
- Which one is not a vestigial organ in human beings? **Eye lid**
- Deficiency of _____ leads to anemia? **Iron**
- The respiratory problem commonly found in smokers is? **Emphysema**
- Normal human body temperature on the Kelvin scale? **310**
- The purest iron that has a small amount of carbon? **Wrought iron**
- Which part of the body becomes fatally affected due to a Covid-19 attack? **Lungs**
- CO_2 is removed from the atmosphere by? **Photosynthesis**
- Blotting paper helps absorb liquids by? **Capillary action**
- Burning coal and gas causes? **Smog**
- Which disease causes problems in blood clotting? **Hemophilia**
- Which gas is 80 times more potent than CO_2? **Methane**
- Which virus is known as "bird flu virus"? **H5N1**
- Who invented the stethoscope? **Rene Laennec**

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- The first satellite launched into space by humans is? **Sputnik I**
- What affects the temperature during the boiling of water? **Air Pressure**
- Bronze is an alloy made of? **Copper-Tin**
- In what forms does matter exist? **Solid, Liquid, Gas**
- The energy produced by a waterfall? **Kinetic Energy**
- Restriction enzymes are used for? **Cutting DNA at specific site**
- In the SI unit of time, a picosecond is equal to how many seconds? **10^{-12}**
- In which year did Graham Bell invent the telephone? **1876**
- The reason for soil pollution is? **Acid rain**
- The speed of electromagnetic rays compared to the speed of light is? **Same as speed of light**
- Wisdom teeth normally appear between the ages of? **17–30**
- A mobile phone sends and receives messages through _____? **Radio waves**
- Guava is a rich source of which vitamin? **C**
- Bats are _____ creatures? **Nocturnal**
- One US gallon is equal to how many litres? **3.785**
- A ball is thrown vertically upward. The acceleration due to gravity? **9.8 m/s^2 downward**
- Humans have ____ pairs of chromosomes? **23**
- Ethanol obtained from sugarcane can be used in _____ as an alternative fuel for cars? **Brazil**
- In the human eye, the retina is a? **Light sensitive surface**
- The rear-view mirror of a motor vehicle is? **Convex**
- Who invented the lightning rod? **Benjamin Franklin**
- What are some examples of primary producers? **Green plants and Algae**
- The theory of relativity was proposed by? **Albert Einstein**
- Which element is the most abundant in the universe? **Hydrogen**
- Tape speed is measured in? **Inch per second**
- Icy celestial bodies orbiting the sun are called? **Comets**
- Who discovered the circulation of blood? **William Harvey**
- Which heating element is the most effective? **Nichrome**
- _____ gas is used to put out the fire? **Carbon dioxide**
- Who discovered the laws of gravity and motion? **Newton**
- In methane, the ratio of carbon atoms to hydrogen atoms is? **1:4**
- Animals store reserved energy in? **Glycogen**
- Food is made to ferment by? **Bacteria**
- The names of blood groups are designated according to? **Antigen**
- Which metal is found in the liquid state at room temperature? **Mercury**
- In railway tracks, a small gap is left between the rails? **To allow for the expansion of metal during heat**
- One nautical mile is equal to how many kilometres? **1.853**

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- The process of removing water from the leaves in the form of vapour is called? **Transpiration**
- Soap and detergents remove dirt from clothes due to? **Lowering of interfacial tension**
- Who is the inventor of the mobile phone? **Martin Cooper**
- Radioactivity is measured by which device? **Geiger counter**
- Photosynthesis takes place in? **Chloroplast**
- Haemodialysis means the cleaning of __? **Blood**
- Cu is the symbol of which element in the periodic table? **Copper**
- Which is the largest part of the human brain? **Cerebrum**
- Television, radio, and phone transmit signals through? **Electromagnetic waves**
- What causes polio? **Virus**
- What is the pH of milk? **6.7**
- The most abundant gas in the Earth's atmosphere is? **Nitrogen**
- What is the study of skin called? **Dermatology**
- Vitamin B is found in? **Seeds**
- State the full form of the term "SPM" which is often used in the study of pollution? **Suspended Particulate Matter**
- The organic molecules (non-protein) that bind to an enzyme (protein) and function as carriers for chemical groups or electrons are? **Coenzymes**
- Which blood group is rare in the human body? **AB-**
- The gas used in chip packets is? **Nitrogen**
- The instrument used to measure blood pressure is called? **Sphygmomanometer**
- Foods that are very rich in energy are? **Fats**
- Which light is most important for photosynthesis? **Red light**
- What are cross eyes? **Due to imbalance in ocular muscles eyes turn inward or outward**
- To remove ice from roads during the winter season, which is used? **Salt**
- Which vitamin is beneficial to the human body through sunlight? **Vitamin D**
- Which instrument is used to measure the oxygen level in the blood? **Oximeter**
- The main constituent of natural gas is? **Methane**
- The smallest unit of a compound is? **Molecule**
- What is laughing gas called? **Nitrous oxide**
- How many bones are there in the adult human body? **206**
- Why do wet clothes dry faster on a hot day? **High temperature of the air helps fast evaporation**
- Which gas is used in a refrigerator for cooling? **Ammonia**
- Mud houses are cooler in summer and warmer in winter compared to brick houses because? **Mud is a bad conductor**
- The fact that viruses are obligate intracellular parasites means that they need ____ for reproduction? **Host cell**

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- A piece of metal becomes hot when it is left in the sun because of? **radiation**
- Scalding with steam is more serious than scalding with boiling water because? **Steam contains more energy than boiling water**
- An increase of carbon dioxide in the atmosphere causes? **Rise in earth's temperature**
- Which planet moves around the Sun the fastest? **Mercury**
- When a balloon filled with hydrogen rises high in the atmosphere? **It will expand**
- The waves used by the TV remote control are? **Infrared waves**
- Water is a highly effective coolant for a car engine because? **Water has very high specific heat capacity**
- Friction can be reduced by switching from? **Sliding to rolling**
- Excessive heating and repeated use of cooking oil is highly undesirable because? **Carcinogenic substances like benzpyrene**
- The flying of birds is a result of Newton's? **Third law of motion**
- Which lenses are useful in a microscope? **Convex lens**
- It is often seen that people living in hilly areas suffer from goiter because? **Their diet and drinking water are deficient in iodine**
- Fibula is a bone found in a part of the human body? **Leg**
- When a bullet is fired vertically upward, it gains in? **Potential energy**
- What is the main ingredient of leather? **Collagen**
- ____ can assist bats in flying in the dark? **Ultrasonic waves**
- One thing can be manufactured using wood? **Paper**
- What can be used to focus sunlight? **Concave mirror**
- Which is the first element of the periodic table? **Hydrogen**
- The purity of which one of the following is measured by a lactometer? **Milk**
- The type of lens present in the human body is? **Biconvex**
- The systematic scientific study of teeth is known as? **Odontology**
- What is responsible for global warming? **Carbon dioxide**
- Ultraviolet rays coming from the Sun are screened by? **Ozone layer**
- Memory loss caused by brain injury is known as? **Amnesia**
- Which is the second largest planet in our solar system? **Saturn**
- Which Muslim scientist wrote the famous book Al-Qanoon? **Abu Ali Sina**
- Which planet rotates at the slowest speed? **Venus**
- Sound waves cannot travel through? **Vacuum**
- Who was the discoverer of the first vaccine? **Edward Jenner**
- Which part of the donated eye is transplanted to the recipient? **Cornea**
- The most plentiful element in the Earth's crust is? **Oxygen**
- The disease known as myopia is related to? **Eyesight**
- Alzheimer's is a disease that affects which part? **Nerve cells**
- Sunlight is composed of how many colors? **Seven colors**
- Air bubbles in water shine because of the phenomenon of? **Total Internal Reflection**

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- Ice floats on water because the density of ice is lower than that of water. The portion of giant icebergs remains above water? **1/10**
- Radio waves are? **Electromagnetic waves**
- Bamboo comes under? **A grass family**
- Electromagnetic waves move with? **Speed of light**
- A person climbing a hill leans forward in order to? **increase stability**
- Medicines used to destroy weeds are known as? **Herbicides**
- Copper wires are commonly used for electrical power transmission instead of iron wires because? **Copper is a better conductor than iron**
- Light-emitting diodes are made from certain compounds of? **Gallium**
- A wave in which the particles of the medium vibrate to and fro in the same direction as the wave travels is called? **Longitudinal wave**
- The eye defect called hypermetropia is corrected by using? **Convex lens**
- The unit of frequency is? **Hertz**
- The most abundant metal found in the earth's crust? **Aluminium**
- An electric generator is a device that transforms? **Mechanical energy into electrical**
- The average duration of pregnancy is 9 months, which is equal to _____ weeks? **40**
- The lowest temperature ever recorded on Earth is? **−89.2°C**
- Through which medium is the speed of sound the greatest? **Glass**
- Agar is commercially sourced from? **Red algae**
- A higher amount of reducing sugar in fruit jelly may lead to crystallization of? **Glucose**
- Burning fossil fuels produces? **Carbon dioxide**
- A deficiency of ____ affects bones? **Vitamin D**
- For clear vision, ____ is important? **Vitamin A**
- In biology, the term morphology deals with? **Study of form and structure of animals and plants**
- A slimy outer covering in some bacteria that protects them from phagocytosis is? **Capsule**
- An organism that lives on or inside a host and harms it while obtaining nutrients from it is called? **A Parasite**
- Miscible liquids with different boiling points can be separated by? **Distillation**
- The first organ formed in a fetus is? **Heart**
- Insulating materials are ____ in nature? **Dielectric**
- ____ is a metal used for coinage? **Copper**
- The primary constituent of hemoglobin is? **Iron**
- The most common monomer of carbohydrates is? **Glucose**
- Microbes are single-celled organisms that can be seen only through a microscope; one example is ____? **Protists**
- The black planet is known as? **Mercury**

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- A lunar eclipse occurs when? **The shadow of the earth falls on the moon**
- One kilowatt is equal to? **1000 watt**
- Origin of Species by Means of Natural Selection was written by? **Darwin**
- Pure gold is? **24 carat**
- Where are most asteroids located? **In asteroid belt between the orbits of Mars and Jupiter**
- Who found Vitamin D? **McCollum**
- The number of spark plugs required in a diesel engine is? **0**
- The lipid-rich components of a bacterial cell are? **Cell membrane**
- Cellulose is? **Carbohydrate**
- 32° Fahrenheit is equivalent to? **Freezing point**
- Dry ice refers to? **Solid carbon dioxide**
- The half-life of a radioactive element is 8 days. How much time will it take to reduce from 10 mg to 5 mg? **8 days**
- Kidney stones are caused by_____? **Calcium Oxalate**
- A moderator is utilized in a nuclear reactor in order to? **Slow down the speed of the neutrons**
- Sedimentary rocks are? **Porous**
- Which is a mineral that is non-metallic? **Gypsum**
- The body system that is responsible for controlling different functions of the body is? **Nervous system**
- The skull contains? **22 bones**
- Yeast is used in bread making because it produces? **Carbon Dioxide**
- Breathing and heartbeat are controlled by? **Medulla oblongata**
- Why do water pipes burst in extremely cold weather when the water inside them freezes? **Water expands as it freezes**
- The normal temperature of the human body is? **37°**
- Plants that obtain food from other plants, such as mistletoe, are called? **Parasites**
- In plants, pollination is the process that enables? **Fertilization**
- Why is it avoided to sleep under trees at night? **Trees release CO_2 at night**
- Which is the largest planet in our solar system? **Jupiter**
- Which organ carries out blood purification in the human body? **Kidney**
- Which gas do plants absorb in sunlight during the daytime? **Carbon dioxide**
- What is the name of the acid present in lemons? **Citric acid**
- What is the unit used to measure the loudness of sound? **Decibels**
- The yeast used in making bread is a? **Fungus**
- H5N1 is classified as a? **Virus**
- The chemical name of synthetic vinegar is? **Acetic acid**
- When a gas changes into a liquid, the process is called? **Condensation**
- Which planet is nearest to the sun? **Mercury**
- The most inexpensive source of electricity generation is? **Solar energy**

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- Hemodialysis purifies_____? **Blood**
- What is the study of insects called? **Entomology**
- During a solar eclipse, the rate of photosynthesis will be? **Decreased**
- Which disease is marked by intestinal perforation? **Typhoid**
- _____ are known as the powerhouses of the cell? **Mitochondria**
- The temperature at which water boils is? **373 K**

Science Past Papers 2021

- "What does HP processing of fruits and vegetables mean?" **High pressure**
- Deficiency of Vitamin A causes in the human body? **Night blindness**
- What is responsible for making the Taj Mahal yellow? **Sulphur dioxide**
- Trachoma is a disease of the? **Eye**
- The instrument used to measure wind speed is? **anemometer**
- An antibiotic is used to stop the growth of or destroy ___? **Bacteria**
- Which acid is used in automobile batteries? **H_2SO_4**
- Vitamin B6 is also called? **Pyridoxine**
- What is the full form of LED? **Light Emitting Diode**
- Who gave the Law of Independent Assortment? **Mendel**
- Which is the least pollutant? **Natural gas**
- Vitamin E is kept in? **Adipose Tissues**
- The sugar found in milk is? **Lactose**
- An example of an inherited disease is? **Haemophilia**
- Name the acid that is present in the sting of ants? **Formic Acid**
- The sun is _____? **Star**
- Which material provides protection against gamma rays? **Lead**
- The time taken by sunlight to reach the Earth? **8 mins 20 sec**
- Which planet takes the greatest amount of time to orbit the Sun? **Neptune**
- The minimum speed required to place a satellite into orbit is called? **Orbital Velocity**
- Exposure to sunlight leads to the formation of _____ in the body? **Vitamin D**
- "Oncology" is the study of? **tumours**
- One metric tonne contains _____ kilograms? **1000**
- Which planet is easily visible from Earth? **Venus**
- John Logie Baird invented? **Mechanical TV**
- Deuterium oxide is the chemical name of? **heavy water**
- Which poisonous gas is present in the exhaust fumes from cars? **carbon monoxide**
- A +1 cation has 10 electrons; how many protons does it have? **11**
- Which country launched the gigantic telescope "Sky Eye" in the search for life beyond Earth? **China**
- Stainless steel is a form of? **Alloy**
- Compressed Natural Gas (CNG) has the same chemical makeup as that of? **Sui gas**

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- Osteomalacia is caused by a deficiency of? **Vitamin D**
- An ordinary mobile phone communicates through using? **radio waves**
- Who is regarded as the father of modern cosmology? **Edwin Powell Hubble**
- The sun contains ___% of the solar system's mass? **99.86**
- To make an uncharged object negatively charged, we must? **Add some Electrons**
- What is the weight of an object at the centre of the Earth, which has radius R? **Weightless**
- The female part of a flower is known as? **Pistil**
- Who presented the laws of gravity? **Newton**
- Near-sightedness (myopia) can be corrected with? **Concave lens**
- The ___ are actually dried flower buds used as a spice? **Cloves**
- In the absence of air resistance, bodies fall with? **Same acceleration**
- The gemstone ruby is actually ___ containing traces of chromium? **Aluminium Oxide**
- The neutral particle in an atom is called? **Neutron**
- Long periods of sleep in animals during winter are called? **Hibernation**
- A mature tree absorbs how much carbon dioxide annually? **48 pounds**
- Who established the relationship between electricity and magnetism? **Hans Christian Oersted**
- A test that identifies abnormalities in the brain is called? **EEG**
- Thomas Edison is well known for inventing? **Bulb**
- ____ have two nuclei? **Paramecium**
- Which female mosquito causes dengue fever? **Aedes Aegypti**
- The function of a transformer? **Convert High AC to Low AC voltages & Convert Low AC to High AC voltages**
- Radioactivity was discovered by _____? **Becquerel**
- Who was the first to fly an airplane successfully in practice? **Wright Brothers**
- Bats find their way at night by? **Ultrasonic**
- The core of an optical fibre is made of? **Silica**
- Polio vaccine was invented by? **Jonas Salk**
- Which vitamin is obtained from the sun? **D**
- Vitamin A is found in? **Vegetables and leaves**
- Which instrument is used to transmit an information signal from one place to another? **Transmitter**
- LASER is the abbreviation for _____? **Light amplification by stimulated emission of radiation**
- The average weight of the male brain is? **49 ounce**
- What is the unit of illumination? **Lux**
- The human body communicates through? **Nerves**
- Which vitamin is soluble in water? **B**
- Solar current is what type of current? **Direct**
- The study of stars is called? **Astronomy**

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- _____ constitutes about 14 to 17 percent of the skeleton**? Phosphorus**
- The pancreas of the human body secretes? **Insulin**
- The amount of water vapour in the air is regarded as? **Humidity**
- The occurrence of an element in more than one form in the same physical state is called? **Allotropy**
- Among contagious diseases, which one usually occurs during childhood or adolescence? **Mumps**
- The pancreas is a large gland located behind the stomach. It produces insulin, which regulates blood sugar. What is the name of this hormone secreted by the pancreas? **Insulin**
- What is a sextant used to measure? **The altitude/height**
- The most common element in all perfumes is? **Ethyl Alcohol**
- Which acid is used in the fermentation process of food? **Lactic Acid**
- Pneumonia is an inflammation of the lungs caused by a bacterium named? **Streptococcus**
- The thyroid gland situated at the front of the neck produces _____ hormones? **Thyroxine**
- Which gas is utilized in balloons? **Helium**
- A lunar eclipse takes place on? **Full Moon**
- The boiling point of water at 1 atm is? **100 degrees**
- How many neutrons are in hydrogen (protium)? **0**
- The energy due to position is called? **Potential Energy**
- Which metal is used in fluorescent tubes and the bulb of a thermometer? **Mercury**
- Which rays have greater penetrating power? **Gamma**
- Isotopes of an element have the same number of? **Protons**
- Who invented the hydrogen bomb? **Edward Teller**
- Metrology is the study of? **Weight and measurements**
- Far-sightedness can be corrected with? **Convex lens**
- The initial process in a petroleum refinery is known as? **Distillation**
- Saturated hydrocarbons are known as? **Alkanes**
- The fundamental building blocks of plants and animals are referred to as? **Cell**
- The substance used in blood clotting is composed of? **Protein**
- Water vapour is? **Gas**
- Non-flowering plants are known as? **Cryptogams**
- Which is not high in protein? **Potatoes**
- The planets classified as inner planets are? **Mercury, Venus, Earth, Mars**
- Asteroids are _____ that are part of our solar system? **Rocky bodies**
- The transmission of radio signals is greatly affected by? **Ionosphere**
- Polluted water can be purified by? **Distillation**
- The ozone layer protects life on Earth from? **Ultraviolet rays**
- What is the SI unit of temperature? **Kelvin**

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- The first satellite launched into space by humans is? **Sputnik I**
- Fuel used in a nuclear power plant is? **Uranium**
- In the human eye, the retina is a? **Light sensitive surface**
- Ice-covered celestial bodies orbiting the sun are called? **Comets**
- Restriction enzymes are used for? **Cutting DNA at specific site**
- A capacitor is a device which? **Stores charge**
- Fathometer is utilized to measure? **Ocean Depth**
- The biggest planet without a magnetic field is? **Venus**
- The velocity of sound is ___ the velocity of light? **Less than**
- Spectrum contains _____ colors? **7**
- Which has no skeleton at all? **Jelly Fish**
- Heroin is made from _____? **Morphine / Opioid**
- Glass is made from a mixture of? **Sand and Silicates**
- The hole formed in the ozone layer is over? **Antarctica**
- The atomic number of nitrogen is? **7**
- What is a drug? **Substance that affects body functions**
- Which is the thinnest layer of the Earth? **Crust**
- The atomic number of oxygen is? **8**
- Rusting of iron involves? **Oxidation**
- What are the three different methods of heat transfer? **Conduction, convection, radiation**
- Penicillin antibiotic is derived from? **Fungi**
- Water covers _____ % of the earth's surface? **70**
- Name the element that is used to manufacture solar cells and transistors? **Silicon**
- In filtration plants, _____ is used to kill bacteria? **Chlorine**
- Microphone transforms sound energy into? **Electrical signals**
- An electric generator is a device which converts? **Mechanical energy into electrical**

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Science Past Papers 2020

- Acid rain is chiefly caused by the emission of? **Sulfur Dioxide and Nitrogen Oxide in the atmosphere**
- Electromagnetic waves were discovered by? **Heinrich Rudolf Hertz**
- In the human body, the gall bladder is a part of the _____ system? **Digestive**
- Jabir ibn Haiyan is renowned for his work in? **Chemistry**
- An alloy made mainly of tin and lead is called? **Solder**
- One horsepower is equivalent to? **746 watts**
- Wind power is an example of? **Kinetic Energy**
- Diamond is a very costly ornament, and it is made of a single element? **Carbon**
- The term 'Horticulture' means the study of? **Gardens**
- What are liquids that evaporate rapidly called? **Volatile**

- The procedure of breaking gallstones and kidney stones by shock waves is called? **Lithotripsy**
- A baby's heartbeat begins? **Before the birth of child**
- What causes the depletion of the ozone layer? **Freons**
- The process in which a gas changes into a liquid is called? **Condensation**
- Cirrhosis is a disease that affects which body organ? **Liver**
- Red blood cells are formed in? **Bone Marrow**
- Which gas found in the Earth's atmosphere can absorb solar ultraviolet radiation? **Ozone**
- Over-cooking of food should be avoided because it? **Reduces the nutrition value of food**
- The study of spiders is called? **Arachnology**
- Which rocks contain fossils? **Sedimentary rocks**
- Which of the following safeguards our body against disease? **White Blood Cells**
- Which one can be recycled many times? **Aluminum**
- Scotograph is a device used for? **Aiding the blind to write**
- The study of life in outer space is called? **Exobiology**
- The energy value of fats and oils is _ times greater than that of carbohydrates and proteins? **2.25 times**
- The study of family history is known as? **Genealogy**
- Rainfall is measured with a? **Rain gauge**
- Bronze is an alloy made of? **Copper & Tin**
- Pollination carried out by birds is called _____? **Ornithophily**
- The life span of white blood cells is? **5 – 21 days**
- Insects respire through? **Spiracles**
- Who invented the stethoscope? **Rene Laennec**
- Lack of iron in the human diet causes? **Anemia**
- PET is a type of nuclear medicine imaging test. What is the full form of PET? **Positron Emission Tomography**
- Hygrometer is used for measuring? **Humidity of air**
- A biome is a community of? **Plants& Animals**
- Which medicine is given to patients suffering from diabetes? **Insulin**
- Surena, an invention of the University of Tehran, is? **Robot**
- The gas commonly referred to as "laughing gas" is? **Nitrous Oxide**
- Chronometer is used for measuring? **Time**
- Parkinson is a disease of which organ? **Brain**
- The biggest planet in the solar system is? **Jupiter**
- The depletion of the ozone layer is caused by chlorofluorocarbons, which are used in? **Spray cans and refrigerators**
- "The diversity of species on Earth is self-generating," supported the ideas of? **Darwin**
- Cataract is a disease of which organ? **Eye**

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- The inner core of an optical fiber is _____ in its composition? **Glass or plastic**
- China's Tianwen-1 mission is associated with? **Mars**
- What is the name of the instrument used to measure air pressure? **Barometer**
- Science that deals with diseases of living organisms? **Pathology**
- Suppose a mass on Earth is 100 kg. What will its mass be on the moon? **100 kg (perfectly)**
- Which material is used in an ordinary pencil? **Graphite**
- The enzyme that speeds up the hydrolysis of fats is? **Lipase**
- Diamond is a form of? **Carbon**
- Which element is not necessary for plants? **Pb**
- What is the process of coating iron with zinc called? **Galvanizing**
- Which type of cells protect the body from infectious diseases and foreign invaders? **White Blood cells**
- How many chromosomes does a person normally have? **23 pairs**
- A deficiency of iron in the human body causes? **Anaemia**
- Molasses is a by-product of a _____ factory? **Sugar**
- ____ is used to measure altitude above sea level? **Altimeter**
- What does the brain need the most? **Glucose**
- Acid precipitation is caused by human alterations of? **The nitrogen and sulfur cycles**
- The proportion of oxygen in the atmosphere is approximately? **21 percent**
- The strongest form of energy is? **Nuclear**
- Which gland produces bile? **Liver**
- Light moves at _____ miles per second? **186,000**
- Which type of lens is present in the human eye? **Bi-Convex**
- Who was the first to invent the airplane? **Wright Brothers**
- Metre is the unit of? **Length**
- Which is the hardest? **Diamond**
- Incisors, canines, premolars, and molars are? **Types of teeth**
- If all the plants in the world die, all the animals will also die because of a shortage of? **Oxygen**
- Calcium deficiency leads to? **Rickets**
- Loss of memory caused by damage to the brain is called? **Amnesia**
- Which element is most abundant in the atmosphere? **Nitrogen**
- The S.I. unit of "Force" is? **Newton**
- Eugenics is the science of improving the _____ species by breeding out diseases and disabilities? **Humans**
- Which is an artificial substance? **Plastic**
- The abbreviation PVC stands for? **Poly Vinyl Chloride**
- The smallest planet in the solar system is? **Mercury**
- Cells infected by viruses produce and release small proteins called? **Interferons**
- The most efficient engine is? **Electric**

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- Among the media, the speed of sound is greatest in? **Steel**
- In the process of galvanization, an iron sheet is coated with? **Zinc**
- Which gas is used to extinguish fire? **Carbon dioxide**
- White blood cells, also called leukocytes, fight against? **Disease**
- What would happen if the ozone layer disappeared? **UV Rays reach earth**
- Interferon is? **Protein**
- Which gland is large at birth but decreases in size with age? **Thymus**
- Which of the following blood groups is the universal donor? **O-ve**
- Which of the following animals is not a ruminant? **Horse**
- When light passes from a rarer medium into a denser medium, it bends toward the normal line; this is called? **Refraction of light**
- Isotopes are atoms of the same element with a different number of? **Neutrons**
- Dead plants floating on the surface of water and the depletion of oxygen in the water body is called? **Eutrophication**
- The chief ore of aluminum is? **Bauxite**
- What is the total number of bones in an adult human body? **206**
- About 50% of the Earth's crust, along with the water on Earth and the atmosphere, is? **Oxygen**
- What is the damage caused by the depletion of the Earth's ozone layer? **Increased amount of UV rays will reach Earth's surface**
- Which is a mineral that is non-metallic? **Gypsum**
- Which photon has the highest energy? **Gamma rays**
- The gas used in the manufacture of Banaspati ghee is? **Hydrogen**
- Which vitamin helps in blood clotting? **Vitamin K**
- The heating element of an electric heater is made of? **Nichrome**
- Treatment by vaccination was introduced by? **Edward Jenner**
- Which is not a natural fibre? **Rayon**
- The compound used in anti-malarial drugs is? **Chloroquine**
- Integrated Circuit (IC) chips used in computers are made of? **Silicon**
- The elimination of carbon dioxide, urine, and sweat is a process of _____? **Excretion**
- The human eye is most sensitive to which color of light? **Green**
- "Anorexia Nervosa" is an illness of? **Eating disorder**
- Vitamin "C" is found in? **Oranges**
- Which one is a carnivore? **Lion**
- The battery was invented by? **Volta**
- In humans, tonsils are found in which part of the body? **Throat**
- The only species in the cat family that lives and hunts in groups is? **Lion**
- Electrons were discovered by _____? **J.J. Thomson**
- Which part of the brain controls the body's temperature? **Hypothalamus**
- Which is an alternative source of energy? **Biogas**

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- Which element is unnecessary for plants? **Iodine**
- Science deals with low temperatures? **Cryogenics**
- The virus that causes AIDS is called? **HIV**
- By combining all the colors of the visible spectrum of sunlight, we get? **White light**
- Which component of the diet helps prevent constipation? **Fibers**
- Iodine deficiency causes? **Goitre**
- The most violent storm is ____? **Tornado**
- Which gas is used for cooling in industrial and domestic purposes? **Ammonia**
- The apparent weight of a person when the elevator is accelerating downward is? **Less than the actual weight**
- Hailstorms occur in the summer season due to the formation of clouds called? **Cumulonimbus**
- ECG stands for? **Electro-cardio Gram**
- The forces acting on a point are called? **Concurrent forces**
- The person regarded as the founder of meteorology is? **Aristotle**
- Wind power is the? **Kinetic energy**
- The conversion of Alternating Current into Direct Current is done by? **Rectifier**
- Name the process by which gases in the Earth's atmosphere heat the Earth like the glass roof of a greenhouse? **Greenhouse effect**
- Water gas is a mixture of? **CO & H_2**
- The name of the common mineral salt found in sweat is? **Sodium Chloride**
- Deuterium differs from hydrogen in having? **Same atomic number and different atomic weight**
- The number of spark plugs required in a diesel engine is? **0**
- The mode of transmission of _____ is direct contact with respiratory droplets produced by coughs or sneezes from an infected person? **COVID-19**
- The sensitive layer of the eye is? **Retina**
- Which disease is transmitted through the respiratory system? **COVID-19**
- Which is the most elastic? **steel**
- A light year is a unit of? **Length**
- Which acid is used in batteries? **H_2SO_4**
- Trachoma is a disease of the? **Eyes**
- The largest species in the cat family is? **Tiger**
- An atom is made up of how many different types of subatomic particles? **Three**
- The scientific name of quartz is? **Silicon Dioxide**
- The amount of fresh water available on Earth is only about? **2.5%**
- The boiling point of water is? **100°C**

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Science Past Papers 2019

- Blood vessels that carry blood away from the heart are? **Artery**

- Which instrument is used to measure the amount of liquid precipitation (rain) over a specific period of time? **Rain Gauge**
- Smoke is an example of? **Solid in gas**
- Which layer of the atmosphere contains ozone? **Stratosphere**
- Which describes the event of a Supernova? **Exploding Star**
- Yeast is necessary in bread making because it produces? **Carbon dioxide**
- Al-Qanun fi al-Tibb is a medical encyclopaedia in five books authored by? **Avicenna**
- Edward Jenner successfully developed the world's first vaccine in? **1796**
- Who invented bifocal glasses and the lightning rod? **Benjamin Franklin**
- Stoma, found in the epidermis of leaves, closes when guard cells _____? **Lose water**
- Who discovered sunspots? **Galileo**
- Parsec is a unit used to measure _____? **Distance**
- Dengue is caused by which kind of mosquito? **Aedes**
- Which very fine filament grows from the skin? **Hair**
- In an ecosystem, to make nitrogen available to primary producers such as plants, it is converted into? **Nitrates**
- A camera uses a convex lens to produce an image that is? **Real, inverted, diminished**
- Into what is the pancreatic juice that helps in digestion secreted? **Duodenum**
- When $NaHCO_3$ is heated, it forms? **CO_2**
- Who sent the first radio signal through the air? **Marconi**
- What is the velocity of sound in air? **1235 km/h**
- After fertilization, from which part of the plant does a fruit develop? **Ovary**
- Smooth Endoplasmic Reticulum is involved in the synthesis and storage of? **Lipids**
- Enzymes are essentially composed of? **Proteins**
- Iron and steel structures are harmed by? **Sulphur dioxide**
- Parthenocarpy is the formation of fruit that makes the fruit? **Seedless**
- Mars, Earth's neighboring planet, has natural satellites? **Two**
- A mechanical stopwatch can measure a time interval as small as? **0.1 s**
- Which tube connects the kidneys to the bladder? **Ureter**
- What percentage of the brain is made up of water? **73%**
- Max Planck received the Nobel Prize in Physics in 1918 for the discovery of _____? **Energy Quantum**
- Which instrument is appropriate for measuring the inside diameter of a test tube? **Vernier Callipers**
- Villi are tiny finger-like projections in the? **Small intestine**
- When HIV was identified? **1983**
- What is the mixture of two metals called? **Alloy**
- What is the fourth state of matter? **Plasma**
- The study of gardens is known as? **Horticulture**
- A biopsy is carried out on tissue samples obtained from? **Living body**

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- After passing through a prism, light disperses into? **7 Colors**
- The life span of Red Blood Cells is ___ days? **120**
- What is the average quantity of blood in the human body? **5 liters**
- "Rickets" is a disease caused by the deficiency of? **Vitamin D**
- The density of water is _____? **1 g/cm³**
- Which planet is nearest to the Sun? **Mercury**
- Who formulated the laws of gravitation? **Newton**
- Drugs are eliminated through? **Kidney**
- Which is responsible for blood clotting? **Platelets**
- Ice floats because? **Density of water is greater than ice**
- What is the measurement unit of pressure? **Pascal**
- How many pairs of ribs are there in the human body? **12**
- Which one is caused by bacteria? **Tetanus**
- What do you mean by the disease “Insomnia”? **Inability to sleep**
- Who is known as the Father of Geometry? **Euclid**
- Apiculture refers to _____? **Science of bee keeping**
- Pneumonia is an infection affecting the? **Lungs**
- Mastication is the process of? **Chewing**
- Cooking gas is a mixture of two gases? **Butane & Propane**
- Bio-fuels are energy sources obtained from? **Plants & Animals**
- Who proposed the "Theory of Evolution"? **Charles Darwin**
- LED is short for? **Light Emitting Diode**
- What does H5N1 refer to? **Virus**
- The SI unit of energy is? **Joule**
- X-rays are produced when a stream of electrons in an X-ray tube does? **Strikes metal target**
- What is responsible for the largest amount of oxygen on Earth? **Algae**
- The device that measures very high temperature is? **Pyrometer**
- Why is ozone important for mankind? **Protection from ultraviolet rays of sun**
- Which of the following animals is not a member of the cat family? **Wolf**
- A person climbing a hill leans forward in order to? **Increase stability**
- At which temperature does water have its highest density? **4°C**
- Which two organs are primarily affected by malaria? **Spleen and liver**
- Newton is the unit of? **Force**
- Heavy water used in nuclear reactors is also known as? **Deuterium Oxide**
- A nerve cell is known as? **Neuron**
- Which colors are the primary colors? **Red, Blue, Green**
- In which part of the body is "Bile Juice" produced? **Liver**
- A plant with green leaves kept under red light will appear? **Black**
- Which element comes first in the Periodic Table? **Hydrogen**
- The Periodic Table was created by? **Dmitri Mendeleev**

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- "Dosimeter" is a device used to measure? **Radiation for safety purposes**
- How many compartments does the human heart have? **4**
- Penicillin was discovered when? **1928**
- Law of magnetism includes? **Faraday**
- Ronald Ross discovered the cause of? **Malaria**
- Why do warm-blooded animals keep their body temperature constant? **For faster metabolism**
- Bleaching powder consists of **calcium oxychloride**
- Immunization is the method by which prevention of disease is done? **Use of vaccine**
- Philology is the study of? **Languages**
- Which one is a greenhouse gas? **Methane**
- The virus name of COVID-19 according to the World Health Organization is? **SARS CoV-2**
- Ornithology is the branch of science that deals with the study of? **Birds**
- What is the common name for baking soda? **Sodium Bicarbonate**
- What was discovered by Alexander Fleming? **Penicillin**
- Which animals do not have a vertebral column (backbone)? **Star Fish**
- Radioactivity is measured by? **Geiger-Muller counter**
- Heavy metal contamination of water is caused by? **Lead**
- Ammar Bin Ali al-Mawsili was known for discovering? **Syringe**
- Ibn Sina a great Muslim scientist, famous for? **Medicine**
- When the object moves with the speed of light its mass would be? **Infinity**
- Mass is the same physical quantity as? **Inertia**
- Autopsy is the taking of tissue from? **Dead body**
- Tomato is which type of plant? **Fruit**
- An anemometer is used to measure? **Wind Speed**
- The electrical activity of the brain is measured by? **Electroencephalography EEG**
- Decibel (dB) is the unit that can be used to measure the? **Intensity of sound pressure**
- Greenhouse effect means? **Trapping of solar energy due to atmospheric carbon dioxide**
- Helium was first discovered in? **Sunrays**
- The compound used in anti-malaria medicines is? **Chloroquine**
- If a body is moving in a circular path, then its angular momentum is? **Remains constant**
- What is a "Scotograph Instrument"? **Aiding Blind to write in the Darkness**
- What is "Mars" called? **A Red Planet**
- Phobia of bathing? **Ablutophobia**
- What material is used to make chips containing micro-circuits for computers and other electronic devices? **Silicon**
- What is the process called when a gas changes into a liquid? **Condensation**

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- Which body part develops first in humans? **Heart**
- Bile is kept in? **Gall Bladder**
- Which is an example of a hereditary disease? **Haemophilia**
- Which hormone is responsible for the production of milk in the human body? **Prolactin**
- At night, plants give out? **Carbon dioxide**
- Amnesia is associated with loss of? **Memory**
- Jupiter is a ball of? **Gases**
- Which vitamin is necessary for the repair of tissues? **Vitamin C**
- Penguin belongs to which species? **Bird**
- The sun's light can be focused using the following lens? **Convex**
- What should an athlete be given for immediate energy? **Carbohydrates**
- Studying human behavior by living in a natural setting is called? **Observation method**
- The property of metals that allows them to be drawn into thin wire is called? **ductility**
- Which unit is used to measure the Earth's latitudes? **Degrees**
- The origin and history of words is? **Etymology**
- The Medulla Oblongata is a part of the human? **Brain**
- Sphygmomanometer is an instrument used to measure _____? **Blood Pressure**
- An atom is composed of __ particles? **3**
- The diaphragm is a thin skeletal muscle in the body related to? **Respiratory System**
- Diphtheria is a disease associated with? **Throat**
- Enzymes consist of? **Protein**
- The planet that moves slowly around the sun is? **Neptune**
- ____ refers to the rocky parts of the earth's crust (or lithosphere) and its historical development? **Geology**
- Tea Scapula is? **Shoulder Bone**
- What is the sun? **STAR**
- Which one is cancer? **Leukaemia**
- Trachea disease is related to? **Throat**
- What substance is used in matchsticks? **Sulphur**
- Paleontology is the study of? **Fossils**
- Faraday's Law is related to? **Electromagnetic induction**
- Diabetes is caused by the malfunctioning of? **Pancreas**
- Which animal has eyes larger than its brain? **Ostrich**
- How many times does an average human breathe in a day? **22,000 times**
- Meteorology is the science of ___? **Weather**
- The waterproof properties of materials used for raincoats and tents are due to? **Surface Tension**
- Fish respire through? **Gills**

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- For what reason does a dog hang its tongue out? **To keep cool**
- Hydrophobia is a symptom of which of the following diseases? **Rabies**
- The Earth's size was first measured by? **Eratosthenes**
- Beri-Beri is a deficiency disease that results from a diet lacking in? **vitamin B**
- What are the insects that transmit diseases called? **Vectors**
- The sky looks blue when it is clear because? **blue light is scattered more than red**
- Which non-metal stays in liquid form at room temperature? **Bromine**
- Which discovery in 1928 brought a great revolution in medical history? **Penicillin**
- Sound cannot travel through? **Vacuum**
- Pure gold is ___ karat gold? **24 carats**
- Which gas is used to fill balloons that fly? **Helium**
- What is an endemic disease? **Disease generally prevalent in a particular area**
- The main gases responsible for acid rain are? **Sulphur dioxide and nitrogen oxides**
- Which gas is used for illumination? **Neon**
- Leukemia is a disease of the? **Blood**
- Among the media, the velocity of sound is greatest in? **Steel**
- What is the main function of the kidneys? **To remove waste products from body**
- Who discovered that plants possess life? **J.C Bose**
- Which layers absorb most of the sun's ultraviolet radiation? **Ozone**
- Who is regarded as the Father of Psychoanalysis? **Sigmund Freud**
- What was invented by the Swedish chemist Alfred Nobel? **Dynamite**
- The melting point of ice is? **32°F**
- The most abundant metal in the Earth's crust is? **Aluminum**
- Who invented the pin of safety? **Walter Hunt**
- Which is used in the production of Banaspati Ghee? **Hydrogen**
- Exposure to sunlight leads to the formation of which vitamin in the body? **Vitamin D**
- Horticulture is the? **Cultivation of flowers and fruits**
- "Richter Scale" is used to measure? **Strength of an earthquake**
- Muscular and nervous disorders are due to the deficiency of? **Vitamin B**
- What protects our body against disease? **White blood cells**
- Which part of the human body is most vulnerable to damage from the Hepatitis virus? **Liver**
- One megawatt is equal to how many kilowatts? **1000 Kilowatt**
- Which blood vessels transport blood from the human body to the heart? **Veins**
- Which disease has been eliminated in Pakistan? **Small Pox**
- Optical Fiber system is used in? **Telecommunication system**
- Who was the inventor of the telephone? **Graham Bell**
- The Periodic Table, which organizes chemical elements according to their atomic number and chemical properties, was developed by? **Dmitri Mendeleev**
- What is the name of the smallest part of matter discovered by scientists? **Quark**
- Orthography is the study of? **Spelling**

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- What is the inflammation of the appendix called? **Appendicitis**
- Birds are? **Warm-blooded**
- Organisms store their genes in long strands of? **DNA**
- What is associated with Einstein? **Theory of Relativity**
- What can be used to focus sunlight at one point? **Convex lens**
- The study of handwriting is called? **Graphology**
- Who made the first gasoline-powered car? **Karl Benz**
- What is the cause of polio? **Virus**
- What does the pancreas secrete? **Insulin**
- Which thing was invented by Pascal? **Calculator and adding machine**
- Vertical distance from Sea level is called? **Altitude**
- Kinetic energy is possessed by a body due to its? **Motion**
- In human beings, influenza is caused by? **Virus**
- During winter in cold countries, _ is added to melt the ice on the icy roads? **Salt**
- The inner core of an optical fiber is __ in composition? **Glass or plastic**
- 'Horse Power' is the standard unit of power equal to? **746 watts**
- Digestion of food begins from? **Mouth**
- Who proposed the theory "Survival of the fittest"? **Herbert Spencer**
- The term PVC is commonly used in the plastics industry. PVC stands for? **Polyvinyl Chloride**
- Which is not considered a chemical reaction? **Conversion of water into steam**
- The volume of a gas is inversely proportional to its pressure. What will its volume be if the pressure is doubled? **Becomes half**
- Nanotechnology refers to? **Extremely Small technology**
- The planet that is easily visible from the Earth is? **Venus**
- The Great Spot is found on the planet? **Jupiter**
- Sedimentary rocks are formed through a natural process known as ___? **Lithification**
- Atmospheric pressure decreases rapidly with altitude because the air becomes? **Less dense**
- 1 light year equals? **9.5×10^{12} km**
- Physiology is the study of? **Functions of body**
- Digestion of food is completed in the? **Small intestine**
- The number of planets that can be seen without using a telescope is? **5**
- Einstein's well-known equation that states mass and energy are interchangeable is? **$E = mc^2$**
- The SI unit of electric current is? **Ampere**
- Long-sightedness is corrected by the lens? **Convex**
- Biosensor is used to measure? **Blood glucose level**
- The main constituent of the Earth's atmosphere is? **Nitrogen**
- The bodyguard of the Earth is _____ that protects the Earth from many comets and asteroids? **Jupiter**

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- A way AIDS spreads is? **Sexually**
- The best source of Potassium is? **Banana**
- The drum of a Photostat machine is made of which element? **Selenium**
- Kilowatt-hour is a unit of? **Energy**
- Dry ice is an example of? **CO_2**
- By which method will both salt and water be obtained from a common salt solution? **Distillation**
- Histology is the study of? **Tissues**
- Who is known as the father of astronomy? **Galileo**
- One of the primary functions of the Earth's ozone layer is to? **Filter out ultraviolet rays**
- Max Planck was awarded the Nobel Prize in Physics in 1918 for his discovery of? **Energy quanta**
- Another name for Vitamin C is? **Ascorbic Acid**
- Solder is an alloy composed of? **Tin and Lead**
- Oxygen was discovered in? **1774**
- A wire has a resistance of 6 ohms. It is divided into two parts, and both halves are connected in parallel. The new resistance is? **R/4**
- Our eyes are sensitive to? **Green light**
- Which has the smallest diameter? **Mercury**
- Bronze medal is composed of the metals? **Copper, Tin**
- Diamond consists of a single element? **Carbon**
- The blood vessels that carry oxygenated blood from the heart to the body are called? **arteries**
- Who is known as the founder of Meteorology? **Aristotle**
- Which layers enable radio transmission? **Ionosphere**
- A light-year is a unit of? **Distance**
- Myopia is corrected by? **Concave lens**
- Which branch of Chemistry is concerned with hydrocarbons and their derivatives? **Organic Chemistry**
- The quantity of matter in an object is called? **mass**
- What is water's density at 4°C? **1 g/cm^3**
- Petroleum consists of a mixture of? **Hydrocarbons**
- Coal is a? **Sedimentary rock**
- When every force passes through a single common point, they are called? **Concurrent forces**
- DNA is the abbreviation of? **Deoxyribonucleic Acid**
- Which disease is caused by drinking contaminated water? **Cholera**
- Marble and Slate are instances of? **Metamorphic rocks**
- A deficiency of vitamin A causes? **night blindness**
- Who is recognized as the inventor of the laser? **Theodore Maiman**

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- What was the name of the first satellite launched into space? **Sputnik**
- Heat transfer takes place by _____ methods? **Three**
- What is the SI unit of charge? **Coulomb**
- The weight of the human heart is? **300gms**
- What is the SI unit of magnetic flux?**Weber**
- Which element is the most abundant in the Earth's crust? **Oxygen**
- Earth's atmosphere is divided into _____ layers? **5**
- The heating element of an electric current is made of? **Nichrome**
- The study of the genetics of the cell is called? **Cytogenetics**
- _____ molecule has a carbon–carbon double bond? **Ethene**
- Permanent magnets can be produced from? **Cobalt**
- Which waves are used in an ordinary TV remote control? **Infrared waves**
- Which gas is present in a soft drink? **CO_2**
- The science of obtaining exact copies of desired living organisms, genes, or molecules is? **Cloning**
- Asthma is triggered by? **Allergy**
- The speed of light is? **300,000 km/s**
- The intensity of sound depends on its? **Amplitude**
- ECG stands for? **Electrocardiogram**
- Which part of the human body is directly affected by pneumonia? **Lungs**
- The gall bladder is a part of? **Digestive system**
- An equilibrium state is one in which? **Both forward and reverse reactions continue at the same rate**
- $NaNO_3$ is formed by which acid? **HNO_3**
- CFC is an abbreviation for? **Chlorofluorocarbons**
- Which one is a metal? **Copper**
- Because of his invention of the lightning rod, Benjamin Franklin is known as the father of? **Electricity**
- The echo of the Big Bang can be detected in the form of? **Microwave radio signals**
- Ammonia is basic because it? **Ionizes in water to give OH^- ions**
- Dr. Abdus Salam of Pakistan was among the contributors to the unification of? **Electromagnetic force & weak nuclear force**
- A banana plant falls under which of the following groups? **Herbs**
- What is meant by "equinox"? **Equal Duration of Day and Night**
- Which of these is not a metamorphic rock? **Shale**
- How much time does moonlight take to reach the Earth? **1.3 sec**
- What is the person who inhales cigarette smoke indirectly known as? **Passive smoker**
- Why is it easier to swim in sea water than in river water? **Density of sea water is higher**
- What is the smallest particle of matter? **Atom**

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- Which action is not voluntary? **Pumping of blood**
- Which metal is the finest conductor? **Silver**
- What is the path through which electric current passes? **Electric circuit**
- The round shape of a raindrop is due to? **Surface Tension**
- What is the cooling agent in a nuclear reactor? **Heavy Water**
- How will a green-coloured leaf appear in red light? **Black**
- An air bubble in water shines because of the phenomenon of? **Total internal reflection**
- Who discovered radioactivity? **Becquerel**
- Which colour has the greatest wavelength? **Red**
- The lightning conductor or rod used to protect buildings from lightning is made of? **Copper**
- The conversion of alternating current into direct current is carried out by? **Rectifier**
- What are all those reactions called that release heat? **Exothermic reaction**
- What makes up about 50% of the Earth's crust, including the water on the Earth and the atmosphere? **Oxygen**
- Oncology is the study of? **Cancer**
- What metal is used as an electromagnet? **Iron**
- Which of the colours has the shortest wavelength? **Violet**
- When the moon seems to be getting bigger, what is that moon called? **Waxing moon**
- What is the chemical formula for magnetic oxide? **Fe_3O_4**
- The amount of fresh water present on earth is only about? **2.5%**
- What is the coldest region in the atmosphere? **Mesopause**
- What is the dielectric constant of water at 18°C? **80**
- Short-sightedness is caused by? **Elongation of eyeballs**
- What is the apparent weight of a person when the elevator is accelerating downward? **Less than the actual weight**
- Which is the descending order of items by their fat content? **Ghee, butter, egg yolk, cheese, condensed milk**
- Insomnia is a? **Sleep disorder**
- How many bones does the skeletal system of an adult human being contain? **206**
- Triple antigen vaccine is given to children to protect them against? **Whooping cough**
- Water gas is a mixture of? **CO & H_2**
- Heightened emotion is caused by? **Adrenal glands**
- Between what ages do wisdom teeth normally grow? **17–30**
- Zika virus is mainly transmitted through? **Mosquitoes**
- What is the function of hemoglobin? **To transport Oxygen**
- Red blood cells are produced in the? **Bone Marrow**
- Pollination carried out by birds is called? **Ornithophily**
- Biopsy is performed on? **Tissue taken from a living body**
- What are chromosomes? **Made up of DNA as a main component**

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- Which of the following hormones contains iodine? **Thyroxine**
- What happens to the conductivity of metals with the rise in temperature? **Decreases**
- Diamond is a very costly ornament. It is made up of the element? **Carbon**
- Blood does not clot inside the body because of the presence of? **Heparin**
- Why are metals deposited at the cathode during electrolysis? **Supplies electrons**
- What are most of the known elements? **Metals**
- Why do planets move around the sun? **Gravitational pull between them**
- Smoke is an example of? **Solid dispersed in gas**
- Which one of the following is true? **Velocity is a vector**
- The energy possessed by a body in motion is called? **Kinetic Energy**
- What color is produced by combining yellow and cyan? **Green**
- Which law of Newton explains the need to wear seatbelts? **1st law**
- The dimensional formula for torque is identical to? **Kinetic energy**
- What is the product of force and velocity called? **Power**
- What is the ratio of inertial mass to gravitational mass? **1**
- What is the name of the liquid that does not stick to glass? **Mercury**
- Young's modulus is the property of? **Solid only**
- What is a region in space from which nothing, not even light, can escape called? **Black hole**
- Which one of the following has the greatest specific heat value? **Water**
- Humidity in the air is measured by? **Hygrometer**
- Which color does neon emit when electricity passes through it? **Red**
- The glitter of diamonds is due to? **High refractive index**
- Madame Curie is famous for her work in which field? **Radioactivity**
- Fog is an example of? **Liquid in gas**
- What gas is used in a lighter? **Butane**
- Hydrogen in the Sun is 73%, whereas 23% is? **Helium**
- Which gas is the lightest? **Hydrogen**
- Soap is a/an? **Base**
- What makes the blood look red? **Haemoglobin**
- Optical Fibre system is mainly used in? **Telecommunication system**
- What does OLED stand for? **Organic light emitting diode**
- Who founded treatment through vaccination? **Edward Jenner**
- The cell was first _____ and named by Robert Hooke in 1665? **discovered**
- Which layer of the atmosphere contains ozone? **Stratosphere**
- Optical fiber operates on the principle of? **Process of total internal reflection**

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Science Past Papers 2018

- Lactometer is used to measure the purity of? **Milk**
- What is the part of the eye that enables us to focus on different things? **Lens**

- The volume of blood in the human body is approximately _____ of body weight? **7%**
- Organic chemistry is the branch of chemistry in which we study the compounds of? **Carbon**
- What is the full form of AIDS in medical terminology? **Acquired Immune Deficiency Syndrome**
- What is the process in which the nucleus of an atom splits into lighter nuclei? **Nuclear Fission**
- For the proper formation of teeth, _____ is essential? **Fluorine**
- At what temperature does water boil? **212F**
- In what is the energy value of food measured? **Calories**
- Which is the longest bone in the human body? **Femur**
- What is the speed of light in meters per second? **3×10^8**
- Which device converts chemical energy into electrical energy? **Battery**
- What did the LIGO detector detect in February 2016? **Gravitational waves**
- When does an eclipse of the moon occur? **Earth comes between moon and sun**
- Apple fell down due to which law? **Law of gravity**
- Which is the most dense substance on earth? **Osmium**
- Rickets in childhood occurs because of a lack of? **Vitamin D**
- What is the biggest source of energy and heat? **Sun**
- What is the chemical symbol of iron? **Fe**
- The filament of an electric bulb is made of which material? **Tungsten**
- What does CNG stand for? **Compressed-Natural Gas**
- How many chambers does a frog's heart have? **3**
- From where do plants obtain their nitrogen? **Soil**
- Hepatitis is a _____ type of disease? **Viral**
- Which is the largest planet in the Solar System? **Jupiter**
- The primary chemical composition of marble includes? **Calcite**
- The infrared radiation from the sun is strongly absorbed by? **CO_2 and H_2O vapors**
- Which type of blood of individuals are universal recipients? **AB+**
- Calorie is a unit of? **Quantity of heat**
- Deficiency of Vitamin C leads to? **Scurvy**
- In which organ is urine formed? **Nephrons, kidneys**
- At what temperature does water convert into ice? **0°C**
- Which instrument is used to measure high temperature? **Pyrometer**
- Approximately what percentage of the atmospheric air is oxygen? **21 percent**
- The chemical reaction of which compound causes acid rain? **Nitrogen Oxide**
- What is a barometer used to measure? **Atmospheric Pressure**
- How many chambers does the human heart comprise? **4**
- For what is the car radiator, a component of every car, used? **Cooling Engine**
- Which glands are responsible for milk production in the human body? **Mammary Glands**

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- Light scatters into seven colours when it passes through? **Prism**
- What is the basic building block of the human body? **Cells**
- Which of the following compounds is contained in milk? **Lactose**
- In what is bile stored? **Gall Bladder**
- At what temperature does water have maximum density? **4°C**
- The term PVC is commonly used in the plastics industry. What does PVC stand for? **Polyvinyl Chloride**
- The lack of which vitamin causes night blindness? **Vitamin A**
- Who discovered oxygen? **Priestley**
- Into what does a microphone convert sound? **Electrical energy**
- Which is not high in protein? **Potatoes**
- Light travels in a vacuum at the speed of? **186282 miles per second**
- Newton is the unit of? **Force**
- Which disease is not caused by a virus? **Typhoid**
- Decibel is a unit used for? **Intensity of sound**
- A camera uses a _____ to form an image? **Convex lens**
- The lens in the human eye is? **Convex Lens**
- Through what can sound not travel? **Vacuum**
- Lockjaw is a medical condition that is observed in cases of? **Tetanus**
- Milk has naturally occurring sugar which is called? **Lactose**
- Goitre is usually caused by the deficiency of ___ in the human body? **Iodine**
- Which kind of milk is generally lowest in fat? **Skimmed**
- Jaundice is caused by hepatitis and malaria and changes the skin colour to? **Yellow**
- The chemical name of table salt is? **sodium chloride**
- What is the fear of bathing known as? **Ablutophobia**
- Among the visible colours, which one has the longest wavelength? **Red**
- Which planet is nearest to the sun? **Mercury**
- When normal sunlight passes through a prism, into how many colours does it split? **7**
- Which is the biggest gland in the human body? **Liver**
- Honey contains? **Fructose**
- Which gas do plants and trees absorb in the daytime? **CO_2**
- Vitreous humor, sclera, and iris belong to which human organ? **Eye**
- Which is necessary for the formation of bones and teeth? **Vitamin D**
- Which instrument is used to listen to the sounds of the heart and lungs? **Stethoscope**
- Who proposed the law of universal gravitation? **Isaac Newton**
- "Macular degeneration" is a disease of which organ? **Eye**
- Which part of the diet helps prevent constipation? **Fiber**
- The blood vessels that carry blood back to the heart are called? **Veins**
- Eugenics is related to? **Improvement of species**
- What is the name for the splitting of light into its constituent colours? **Dispersion**

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- What is the damage caused by the depletion of the Earth's ozone layer? **Increased amount of UV rays will reach Earth's surface**
- Which is the second most abundant metal found in the Earth's crust? **Iron**
- What is the biggest source of oxygen on Earth? **Algae**
- "To every action there is always an equal and opposite reaction." This statement is Newton's which law? **Third Law**
- Sunlight is made up of? **Seven colors**
- The nervous system in the human body consists of? **Brain Spinal Cord and Nerves**
- Which one is known as a non-metal? **Graphite**
- Which of these particles has the greatest penetrating power? **Gamma Rays**
- A man's blood pressure during sleep is? **Decreases**
- Heavy water used in nuclear reactors is also known as? **Deuterium Oxide**
- Which diseases have been eliminated in Pakistan? **Small Pox**
- What is the primary purpose of nuclear energy? **To use it as an alternative source of energy**
- Blood leaves the heart through arteries. What is the name of the main artery that leaves the left ventricle? **Aorta**
- From where do parasitic plants get food? **From the host plant**
- In which units is the thickness of the ozone layer expressed? **Dobson**
- Which instrument is used to measure temperature? **Thermometer**
- Which of the following metals is used for galvanizing iron? **Zinc**
- In which part of the human body are metacarpal bones found? **Hands**
- Which of the following is the most abundant in the atmosphere? **Nitrogen**
- Where is the thyroid gland located in the human body? **Neck**
- Glaucoma is caused by an increase in pressure within? **Eye ball**
- Which poisonous gas is produced when coal burns without enough air supply? **Carbon Monoxide**
- "Sleep Apnea" is a disorder characterized by? **Breathing problem**
- Sunlight is the source of? **Vitamin D**
- Which deals with diseases of the blood? **Haematology**
- Which gas is used in making fizzy soft drinks? **Carbon dioxide**
- What is the study of birds called? **Ornithology**
- Which group of animals are called herbivores? **That feed on plants and their products**
- Why does the Sun always rise in the East? **The Earth Rotates From West to East**
- In which kind of rocks are coal and petroleum found? **Sedimentary**
- Which is the most abundant element in the Earth's crust? **Oxygen**
- What is the Earth? **Planet**
- What does the flow of current mean? **Flow of electron**
- Which is the most abundant element in the Universe? **Hydrogen**
- How many liters of blood are in a body? **5 liters**

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- What do very high frequency waves have? **Shorter wavelengths**
- What carries no charge? **Neutron**
- What type of gas is used in an electric bulb? **Argon**
- Shortsightedness can be corrected by using? **Concave lens**
- Soap is? **Salt of a fatty acid**
- What is the freezing point of water? **0 Celsius**
- A hexagon has _____ sides? **six**
- Which one is more elastic? **Steel**
- Rodenticides are meant to kill? **Rats**
- Which metal remains liquid at room temperature? **Mercury**
- Sound waves are? **Longitudinal**
- Blood is cleaned by which one of the organs? **Kidney**
- Sugar cane requires? **Excessive water**
- The Law of Inertia was given by? **Newton**
- Why should one not sleep under a tree? **It releases CO_2**
- What is the percentage of water in milk? **87pc**
- Which layer of the Earth is the thickest? **Mantle**
- Natural gas is composed of? **Carbon and Hydrogen**
- A force that attracts a body towards its centre is called? **Centripetal force**
- What does fertilizer for good crop growth contain? **Nitrogen**
- Vegetable ghee is prepared by? **Hydrogen and Nickel Catalyst**
- On what does stopping a moving body depend? **Its mass and velocity**
- Light travels at the speed of? **3,00,000 km/s**
- If the speed of rotation of the Earth increases, the weight of the body? **Decreases**
- How many litres of air does the human body breathe? **10,000 to 15,000**
- How many teeth does a normal adult dog have? **42**
- A mixture of two metals is called? **Alloy**
- Long-sight defect can be corrected by using _____ lens? **Convex**
- What is the Sun? **Star**
- What is the density of water? **1 g/cm^3**
- For a fixed mass of gas at constant temperature, if we decrease the volume, the pressure will? **Increase**
- Who invented X-ray? **Roentgen**
- What is the function of the pacemaker? **Initiation of heartbeat**
- If a patient has blood group AB and needs a blood transfusion, he? **Can be given blood of AB, O, A or B group**
- By which process can both salt and water be recovered from a common salt solution? **Distillation**
- When the concentration of oxygen in the blood decreases, the rate of breathing? **Increases**
- What is the source of oxygen in photosynthesis? **Water**

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- Which group of the following compounds constitutes carbohydrates? **Starch and sugar**
- What does DNA stand for? **Deoxyribonucleic Acid**
- A wire has a resistance of 6 Ω. It is cut into two parts, and both halves are connected in parallel. What is the new resistance? **1.5 Ω**
- Which instrument is used to measure wind speed? **Anemometer**
- Which element is the drum of a Photostat machine made up of? **Selenium**
- The smallest blood vessel is called? **Capillary**
- For the manufacture of cement, which of the following is used in the largest quantity? **Calcium oxide**
- Which is heredity disease? **Haemophilia**
- What are the forces acting at a point called? **Concurrent forces**
- The natural fats and oils are composed of? **Carbon, Hydrogen and Oxygen**
- Which animals use echolocation for movement? **Bat**
- What are asteroids? **Minor Planets**
- Which gas was commonly used in airships? **Helium**
- Which is the hardest natural substance? **Diamond**
- The strongest muscle of the human body is? **Masseter, in the jaw.**
- The largest organ of the body is? **Skin**
- Vitamins were discovered by? **Funk**
- Which chemical element has properties of a metal and non-metals? **Metalloid**
- Our skin produces __ when exposed to Sunlight? **Vitamin D**
- What did Benjamin Franklin invent? **The lightning rod**
- A disease that spreads over a large area? **Epidemic**
- The conversion of a gas into a liquid is known as? **Condensation**
- The proportion of hydrogen to helium in the Sun is about? **3:1 by mass**.
- Substances which bring down the body temperature are known as? **Antipyretics**
- The coldest planet is generally considered **Uranus**
- Wind energy is the _____ type of energy? **Kinetic**
- Which scale is used for measuring earthquakes? **Richter scale**
- Rh factor is related to? **Blood transfusion**
- What are the good sources of Vitamin B Complex? **Seeds**
- Who is regarded as the founder of meteorology? **Aristotle**
- What are the good sources of Vitamin C? **Fresh vegetables and fruits**
- The device used to convert alternating current into direct current is called a? **Rectifier**
- What are the good sources of iodine? **Seafoods**
- What is the SI unit of electric current? **Ampere**
- What is the 4th state of matter? **Plasma**
- How many layers are there in the Earth's atmosphere? **5**
- Who discovered electrons? **J. J. Thomson**

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- Which one cannot be compressed? **Solid**
- What is Einstein's famous equation that states that mass and energy are interchangeable? **$E = mc^2$**
- Who discovered the neutron? **James Chadwick**
- Acid rain is mainly caused by the emission of _____ into the atmosphere? **Sulphur dioxide and Nitrogen Oxide**
- What is it called when substances have the same molecular formula but different structures? **Isomers**
- One horse power is equal to? **746 watts**
- What is the scientific method? **Observation, Hypothesis, Experiment**
- Who discovered the nucleus? **Ernest Rutherford**
- Which method of heat transfer makes the transfer of heat in vacuum possible? **Radiation**
- What is the principal constituent of the atmosphere? **Nitrogen**
- What is dry ice? **Solid Carbon Dioxide**
- In which part is the digestion of food completed? **Small Intestine**
- Diamond is a form of? **Carbon**
- What is the chemical symbol of iron? **Fe**
- Biosensor is used to measure? **Blood Glucose level**
- Carrot is a good source of which vitamin? **A**
- Deficiency of _____ causes poor growth and loss of appetite? **Zinc**
- Which are the primary colours? **Red, yellow, Blue**
- What is the chemical name of laughing gas? **Nitrous oxide**
- What are the good sources of Vitamin A? **Green leafy vegetables**
- Meteorology is the study of? **Atmosphere**
- What is the primary chemical composition of marble? **Calcite**
- Organic chemistry is the branch of chemistry in which we study the compounds of _____? **Carbon**
- Insomnia is a? **Sleep disorder**
- What is the SI unit of charge? **Coulomb**
- Which gas is commonly used in balloons? **Helium**
- Acid rain is caused by the chemical reaction of which compound? **Nitrogen oxide**
- Which of all these gases is the lightest? **Hydrogen**
- The carbon dioxide in the atmosphere, by volume, is? **0.039%**
- Why is mercury used as a thermometric fluid? **Stable coefficient of expansion**
- What is the car radiator, a component of every car, used for? **Cooling Engine**
- Which instrument is used to measure blood pressure? **Sphygmomanometer**
- "Theory of Relativity" was proposed by? **Albert Einstein**
- What does EMF stand for? **Electromotive force**
- How many chambers does the heart of a frog have? **3**
- What is the average weight of the male brain? **48 ounce**

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- What is the average weight of the female brain? **44 ounce**
- Calorie is a unit of? **Quantity of heat**
- Which element is required for solar energy conversion? **Silicon**
- Which is the cheapest source of electricity generation? **Solar**
- Velocity is measured by using which formula? **Displacement/Time**
- Lactometer is an instrument used to measure the purity of milk by measuring its? **Density**
- What is silicon? **Semi-conductor**
- The SI unit used to measure pressure is **pascal**
- What does HCL stand for? **Hydrochloric Acid**
- What does our brain use? **Glucose**
- Pediatrics refers to? **Care of children**
- The heat received by the Earth from the sun is known as? **Solar radiation**
- What are chromosomes made up of? **DNA**
- At night, plants take in _____ and exhale _____? **Oxygen, Carbon dioxide**
- Which one is an invertebrate? **Insects**
- Which one has the least mass? **Electron**
- Which is the nearest planet to the Earth? **Venus**
- What is the value of g? **9.8 m/s²**
- Which type of pathogen causes diseases that can be treated with antibiotics? **Bacteria**
- Which is the largest mammal in the world? **Blue Whale**
- Which planet is known as the bodyguard planet of the Earth? **Jupiter**
- Which planet is easily visible from the Earth? **Venus**
- Rear view mirror in a motor vehicle is? **Convex mirror**
- Blood is purified by? **Kidneys**
- How many planets are visible without a telescope? **5**
- Which is the planet that rotates the fastest? **Jupiter**
- The spots seen on Jupiter are actually? **Storm**
- On which Planet greatest spots are? **Jupiter**
- Which disease is genetically linked? **Colour blindness**
- Mirage is an example of? **Refraction of Light**
- Which is a Vector quantity? **Velocity**
- Normal pH of human body is? **7.4**
- Which item is a source of Proteins? **Meat**
- _____ cannot be compressed? **Liquid**
- Stainless steel is mainly an alloy of? **Chromium and Nickel**
- In the human body, the gall bladder is part of which organ/system? **Digestive system**
- Which is the physics law of moments? **The sum of clockwise moments is equal to the sum of anticlockwise moments**
- The ozone layer prevents _____ from entering the atmosphere? **Ultraviolet rays**

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- How to Fish survives in icy water? **Fish are cold blooded**
- Seasons/weather patterns change mainly because of the **Earth's revolution around the Sun.**
- By whom was the law of heredity given? **Gregor Mendel**
- Meteorology is the study of? **Weather**
- Deficiency/lack of fiber can cause? **constipation**
- Long sight defect could be corrected by using a _____ lens? **Convex**
- Who discovered radioactive radiations? **Becquerel**
- What is the speed of light? **300000 km/s**
- What did LIGO detect? **Gravitational waves**
- Which is the longest and strongest bone of all? **Femur**
- A device that converts chemical energy into electrical energy is called? **Battery**
- Which one is not a conductor? **Silicon**
- The fluid part of blood is known as? **Plasma**
- A camera uses a _____ for forming an image? **Convex lens**
- 1 nanometer is equal to? **10^{-9} meter**
- Which one will freeze last? **Sea Water**
- Which gas is poisonous to humans? **Hydrogen chloride**
- Why does an iron needle sink in water, but an iron ship float? **Archimedes' principle**
- In eye donation, which part of the eye can be used? **Cornea**
- Which gas is used to put out fire? **CO_2**
- Who discovered radium? **Marie Curie**
- What do plants and trees absorb in the daytime? **Carbon dioxide**
- Why does an apple, when detached from the tree, come down to the earth? **Because of law of gravity**
- Which kind of lens is used to correct myopia? **Concave**
- What makes up about 50% of the Earth's crust, including the waters on the Earth and the atmosphere? **Oxygen**
- How is a rainbow formed after rain? **Light fragments into seven colours after passing through water drops**
- Which gas is used in an air conditioner? **Freon gas**
- Who gave the laws of motion? **Newton**
- Carbon monoxide is? **is poisonous for the human**
- What is the essential component of acids? **Hydrogen**
- What do plants and trees release at night? **Carbon dioxide**
- Which crop needs the maximum watering? **Rice**
- Astronomy is the science of? **Celestial objects**
- Coal, peat, oil, and natural gas are non-renewable sources of stored energy. They are formed over geological time from decomposed plants and animals. What term is used for them? **Fossil fuel**
- What is the SI unit of heat? **Joule**

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- What is the melting temperature of ice? **0°C**
- Astrology is the study of? **Impacts of stars on human**
- Acid is neutralized by? **Alkali**
- Which is the densest substance on the Earth? **Osmium**
- Deficiency of Vitamin A leads to? **Night Blindness**
- The energy obtained from the sun is called? **Solar energy**
- In the human body, the red blood cells are? **Oxygen carriers**
- Which phenomenon does not lead to global warming? **Ozone depletion**
- Freezing point of water is? **0°C or 32°F**
- The velocity of sound in air per second is? **331 meters**
- Which blood group among the following is the universal blood recipient? **AB+**
- How much blood does a normal person have in his body? **7% of body weight**
- What is the full form of AIDS in medical terminology? **Acquired Immunodeficiency Syndrome**
- Parasitic roots get food from? **Other plants**
- In what is the energy value of food measured? **Calories**
- What is the boiling point of water? **212°F**
- Which method is used to purify salt water? **Distillation**
- The total life span of Red Blood Cells is _____ days? **120**
- What is the speed of light in meters per second? **3*10^8**
- When does an eclipse of the moon occur? **Earth comes between moon and sun**
- In humans, eye colour is determined due to the effects of? **Genes**

Science Past Papers 2017

- At what temperature does sea water (salt water) freeze? **Slightly lower temperature than fresh water**
- Which one is not a mammal? **Shark**
- Deficiency of vitamin D leads to? **Weak Bones**
- Which of the following infectious diseases is transmitted from one person to another through the air? **Tuberculosis**
- Which vitamin does sunlight provide to the body? **Vitamin D**
- The major component of honey is? **Fructose**
- Which is the least expensive source of electricity? **Hydel**
- "Gastric juice" is secreted by the glands present in? **Stomach**
- Which metal is radioactive? **Thorium**
- Paleontology is the study of? **Fossils**
- Which of the following is not a radioactive element? **Cadmium**
- Which vitamin helps maintain normal blood clotting? **Vitamin K**
- One molecule of water is composed of? **Two atoms of Hydrogen, one atom of Oxygen**

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- The AIDS virus is called? **H.I.V**
- Which of the following is a chemical reaction? **Rusting of iron**
- By which process do plants produce sugar and starch by means of sunlight? **Photosynthesis**
- In which part of the human skeleton are the metatarsal bones located? **Feet**
- Which element is the most abundant in the Earth's crust? **Oxygen**
- Which kind of milk is generally lowest in fat? **Skimmed**
- Elements are arranged together according to their atomic number in a table. What is this table called? **Periodic Table**
- Renewable sources of energy include? **Hydel Energy**
- Deficiency of vitamin C causes? **Scurvy**
- Physiotherapy is a treatment method for? **Immobility of Joints**
- Which gland secretes tears in the human body? **Lachrymal**
- By mixing all the colors of the visible spectrum of sunlight, what do we produce? **White light**
- What was the name of the first cloned sheep? **Dolly**
- The filament of an electric bulb is made of? **Tungsten**
- Hydrophobia is a symptom of which disease? **Rabies**
- What can be used to focus sunlight at one point? **Convex lens**
- Insulin is secreted by? **Pancreas**
- What is responsible for the largest amount of oxygen on Earth? **Algae**
- Animals that capture and kill living animals for food are called? **Predators**
- Birds are? **Warm-blooded**
- Guava is a rich source of? **Vitamin C**
- If you have "Caries," which doctor should be consulted? **Dentist**
- Where is the 'Patella' present? **Knee**
- If a person's mood swings from normal to extreme behavior, it is due to? **Bipolar Disorder**
- In the human body, blood cells are produced by _____? **Bone-marrow**
- During photosynthesis, plants release? **Oxygen**
- Which particle emitted by a radioactive element carries a positive charge? **Alpha rays**
- Which enzyme digests starch? **Amylase**
- What is the shape of the Milky Way Galaxy? **Spiral**
- The average weight of the human heart is? **300 gm**
- What protects our body against disease? **White Blood Cells**
- Who is regarded as the father of Nuclear Physics? **Ernest Rutherford**
- Hypothermia is caused by exposure to? **Extreme cold**
- Cholesterol is found in all of the following except? **Egg white**
- Which disease of cattle has been eradicated worldwide? **Rinderpest**
- What is another name for Vitamin C? **Ascorbic Acid**
- An example of a hereditary disease is? **Hemophilia**

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- Break bone fever is transmitted by a mosquito; it is another name for? **Dengue**
- How many joules is 1 BTU equal to? **1055**
- When a disease occurs over a large area of the Earth's surface at one time, what is it called? **Pandemic disease**
- The procedure of breaking gallstones and kidney stones by shockwaves is called? **Lithotripsy**
- What is essential for the proper formation of teeth? **Fluorine**
- CNG is the abbreviation of? **Compressed Natural Gas**
- Galvanized iron sheets have a coating of what on them? **Zinc**
- The speed of light, in miles per second, is? **186000**
- Who proposed the Theory of Natural Selection in Evolution? **Darwin**
- Which of the following metals is used for the galvanization of iron? **Zinc**
- Vitamin C is essential for? **Growth & repair of tissues**
- Cholera is caused by? **Bacteria**
- The process in which leaves absorb sunlight and use that energy to synthesize carbohydrates from water and air is called? **Photosynthesis**
- A solution is? **Homogenous**
- Due to what does the atomic radius decrease in a period? **Increase in nuclear attraction**
- Which type of phosphorus is used in safety matches? **Red Phosphorus**
- At the peaks of high mountains, the boiling temperature of water is? **Decrease**
- Which is not a characteristic of solids? **Frequent fluidity**
- Do plants carry out photosynthesis more on a sunny day than they do on a cloudy day? **Faster**
- What is an air pollutant? **Carbon monoxide**
- HCL is? **Acid**
- Vaccines are used for? **For protection against diseases**
- What happens as we go higher in the air? **Atmospheric pressure decreases**
- Which gas is used in soft drinks? **Carbon dioxide**
- Why do we prefer to wear woolen clothes in winter? **Woolen clothes are bad conductor of heat**
- Which one is not a primary color? **Black**
- _____ is the largest source of energy? **Sun**
- The law of gravity was given by? **Newton**
- What is the density of water? **1 g/cm³**
- Very High Frequency (VHF) has wavelengths that are _____? **Shorter**
- The average adult has a blood volume of about how many liters? **5**
- The gas used in a refrigerator to cool water is? **Ammonia**
- Which planet is nearest to the Earth? **Venus**
- Which instrument is used to measure height above sea level? **Altimeter**
- Tuberculosis generally affects? **Lungs**

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- Which gas is responsible for stopping the ultraviolet radiation coming from the sun? **Ozone**
- What happens to the magnetism of a magnetic material when it is heated? **Decreases**
- Through which medium does sound travel the fastest? **Steel**
- The process in which AC is converted into DC is called? **Rectification**
- For a fixed mass of gas at constant temperature, if we decrease the volume, what will happen to the pressure? **Increase**
- At a very low temperature, which of the following will freeze last? **Sea water**
- Which is the largest planet in the Solar System? **Jupiter**
- In what part of the body is urine produced? **Kidneys**
- Which group of animals are called herbivores? **That feed on plants and leafy products**
- During winter in cold countries, _____ is mixed on icy roads to melt the ice? **Salt**
- GPS is an abbreviation for? **Global Positioning System**
- Biosensor is used to measure? **Blood glucose level**
- The Earth's only natural satellite is __? **Moon**
- In general, comets have _____ orbits? **Highly elliptical**
- Short-sightedness can be corrected by? **Concave lens**
- Which planet moves around the Sun at the highest speed? **Mercury**

Science Past Papers 2016

- Bauxite is an important ore of? **Aluminium**
- The diaphragm in the human body assists in? **Respiration**
- A gene is? **Unit of heredity**
- Which is used to purify water? **Chlorine**
- What is used in a pencil? **Graphite**
- Acoustics is the science of? **Sound**
- The optical fibres used in fiber optics are made of? **Glass**
- "Bronchitis" is a disease related to? **Respiratory tract**
- MRI is a commonly used diagnostic tool in hospitals. What does MRI stand for? **Magnetic Resonance Imaging**
- Name the apparatus used to determine the purity of milk? **Lactometer**
- Compressed Natural Gas (CNG) has the same chemical composition as? **Sui Gas**
- A human heart has how many chambers? **4**
- The acid used in batteries is? **Sulphuric acid**
- Approximately how many bones are in the body of an adult human? **206**
- Diabetes is caused due to the lack of? **Insulin**
- Which waves are used for sending sound waves over a large distance? **Radio Waves**
- Deficiency of iron in human blood causes? **Anemia**

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- "Dialysis" is used for the treatment of? **Kidney failure**
- _____ has the highest penetrating power? **Gamma rays**
- AIDS virus destroys the _____ system of the human body? **Immune**
- A whale is? **Mammal**
- What is the average number of heartbeats per minute in a normal man? **72**
- The speed of sound in air at sea level is approximately? **340 meter per second**
- Which one is a metal? **Mercury**
- What is the study of cancer called? **Oncology**
- Which is not regarded as a greenhouse gas? **Hydrogen**
- The most widely used bleaching agent is? **Chlorine**
- Polio is caused by? **Virus**
- Which body part is affected by leukemia? **Blood**
- Animals that eat both plants and meat are known as? **Omnivores**
- Name the mammal that can actually fly? **Bat**
- Cocci, Bacillus, Spirillum, and Vibrio are examples of? **Bacteria**
- Hepatitis C affects which part of the human body? **Liver**
- Pulses are a good source of? **Protein**
- The sun rises in the east and sets in the west because of the? **Rotation of the earth on its axis**
- What is the true sequence of the process of Science? **Observation, Hypothesis, Experiment**
- Which gas is used in the manufacture of Banaspati Ghee? **Hydrogen**
- Bodies that usually fall from the sky to the Earth are called? **Meteorites**
- Mass is the concentrated form of? **Energy**
- Which element is the most abundant in the Earth's atmosphere? **Nitrogen**
- In photosynthetic plants, what is the source of oxygen? **Water**
- The instrument used to measure very high temperature is called? **Pyrometer**
- The coldest planet of the Solar System is? **Uranus**
- Which is a rich source of Vitamin C? **Fresh juice & Fruits**
- A barometer is an instrument used for? **Measuring air pressure**
- Which planet is nearest to the Sun? **Mercury**
- A person sitting in front of a fire receives heat through? **Radiations**
- The hole formed in the ozone layer is over? **Antarctica**
- Which planet takes the greatest amount of time to complete one orbit around the Sun? **Neptune**
- Decibel is a unit used for measuring? **Intensity of sound**
- When a gas changes into a liquid, what is the process called? **Condensation**
- Which component of the diet helps prevent constipation? **Fiber**
- The solid form of which gas is known as "Dry Ice"? **Carbon dioxide**
- Which is the smallest planet in our Solar System? **Mercury**
- What is the approximate mass of the human brain? **1.4 kg (48 Ounce)**

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- Soil erosion can be stopped by? **Afforestation**
- "Ornithology" is the study of? **Birds**
- Which disease results from drinking contaminated water? **Cholera, Typhoid**
- The microphone converts sound into? **Electrical signals**
- Pain killer drugs are called? **Analgesics**
- Which one is not a natural fiber? **Rayon**
- Muslim scientist and philosopher Ibn-al-Haytham made his most famous contribution to which field? **Optics**
- The Sun is? **Star**
- Sphygmomanometer is an instrument used to measure? **Blood Pressure**
- What is the common name for Sodium Chloride? **Salt**
- What is the main chemical substance present in the bones and teeth of animals? **Calcium Phosphate**
- Lock Jaw, that is difficulty in opening the mouth, is a symptom of? **Tetanus**
- Bio-fuels are a source of energy derived from? **Plants & animals**
- Water covers how much of planet Earth? **70%**
- Which is the only food that never spoils? **Honey**
- Duodenum is part of which _____ in the human body? **Digestive System**
- Diabetes is caused by the malfunctioning of? **Pancreas**
- Which instrument is used to measure the humidity in the air? **Hygrometer**
- Chronometer is used to measure? **Time**
- Which blood vessels carry blood from the human body back to the heart? **Veins**
- Which disease affects the human skin? **Pellagra**
- As the temperature of ice rises, the ice melts and its density what happens? **In creases**
- The science of heavenly bodies is known as? **Astronomy**
- Paediatrics is relevant to? **Children**
- A mixture of Potassium Nitrate, Charcoal, and Sulphur is called? **Gunpowder**
- Lemon is a good source of which vitamin? **C**
- Tuberculosis is what type of infection? **Bacterial**
- Why are water drops spherical? **Surface tension**
- Sunlight is made up of? **Seven Colors**
- By whom was the nature of infectious diseases and their control by vaccination first demonstrated? **Louis Pasteur**
- Entomology deals with? **Insects**
- How is the blood glucose level commonly expressed? **Milligram per decilitre**
- In which part of the human body is the thyroid gland located? **Neck**
- Glaucoma is caused by increase in pressure within? **Eyeball**
- Which compound is used in anti-malaria drugs? **Chloroquine**
- Natural rubber is obtained from which of the following? **special kind of tree**
- What is the art of breeding silkworms and producing silk called? **Sericulture**

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- Rocket propulsion is based on? **Newton's third law of motion**
- Where is bile stored and intermittently released into the small intestine to help in digestion? **Gall Bladder**
- Which blood group is known as a universal donor? **Group O negative**
- Which tube extends from the mouth to the anus? **Alimentary canal**
- Which part of the brain contains the centres for controlling respiration, heartbeat, and blood pressure? **Medulla oblongata**
- What is the average weight of the female brain? **1200 grams**
- What are the minor objects of irregular shape orbiting the sun called? **Asteroid**
- What is the layer of the atmosphere in which we live? **Troposphere**
- The theory that explains the beginning of the Universe through a huge explosion is called? **Big Bang**
- What is meant by H5N1? **Virus**
- Hydrometer is used to measure? **Specific gravity of a liquid**
- A rocket needs a speed of _____ to escape from the earth's gravity? **7 miles per second**
- Which vitamin helps prevent haemorrhaging? **K**
- Post-mortem examination of the organs or tissues of a dead body is called? **Autopsy**
- What is the structure in a cell that contains the genes called? **Chromosome**
- The layer of air that surrounds the earth is called? **Atmosphere**
- Hydrochloric acid is necessary for the easy digestion of? **Proteins**
- What is a constellation? **Patterns or groups of stars in the sky**
- Which is the most common type of colour blindness, usually found in males? **Difficulty in distinguishing red from green**
- Vitamin A is necessary for? **Preventing night blindness**
- One molecule of water is made up of? **Two atoms of Hydrogen, one atom of oxygen**
- Iron metabolism in the human body helps in? **Haemoglobin**
- What is the name of the lowest zone of the atmosphere that contains about seventy-five per cent of the total mass of the atmosphere and ninety per cent of its water vapour? **Troposphere**
- What is the full form of DNA in genetics? **Deoxyribonucleic Acid**
- Which disease causes breathing difficulty? **Asthma**
- Sunlight is made up of? **7 colours**
- One barrel of petroleum is equal to? **42 US gallons**
- An ordinary mobile phone communicates by using? **Radio waves**
- Which infectious disease is transmitted from one person to another through the air? **Tuberculosis**
- How much blood is present in the body of a normal adult person? **About 5 to 6 litres**
- Why is water a highly effective coolant for a car engine? **Water has very high specific heat capacity**
- The meter installed in our homes measures electricity in? **KWh**

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- Which is the sensitive layer of the eye? **Retina**
- What has replaced vacuum tubes? **Transistors**
- Diamond is a very costly ornament. It is made up of only one element? **Carbon**
- Where is fat digested? **Small intestines**
- Which is the largest species of the cat family? **Tiger**
- Why are two blankets warmer than one? **Two blankets enclose air which does not allow the cold to penetrate**
- Dr. Abdus Salam of Pakistan was one of the contributors to the unification of? **Electromagnetic force and weak nuclear force**
- An atom is made up of how many different kinds of subatomic particles? **Three**
- What is used in fire extinguishers? **Carbon dioxide**
- How many spark plugs are needed in a diesel engine? **0**
- Which is the most elastic? **Steel**
- Light travels at how many miles per second? **186000**
- By whom was radioactivity discovered? **Henri Becquerel**
- Which is the longest bone in the human body? **Femur**
- "Horse Power" is the standard unit of power equal to? **746 watts**
- Which is used to disinfect water? **Chlorine**
- X-Ray was discovered by? **Roentgen**
- What is the chemical name of quartz? **Silicon Dioxide**
- Altitude is measured by which instrument? **Altimeter**
- A deficiency of vitamin D causes which symptom? **Weak Bones**
- Why is swimming easier in sea water than in river water? **Density of sea water is higher**

Science Past Papers 2015

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- Myopia can be corrected by using which type of lens? **Concave**
- What does the enzyme-linked immunosorbent assay (ELISA) use? **Antibodies**
- Which mineral is added to saline sodic soils for enhanced production? **Gypsum**
- The substance used in match sticks is? **Phosphorous**
- Which is the biggest organ of the human body? **Skin**
- Which is not a mammal? **Fish**
- In which part of the body are flat bones found? **Chest & Skull**
- How many bones are in the body of a new-born baby? **300**
- Penicillin, the “antibiotic,” was discovered by? **Alexander Fleming**
- What does the Latin word "Fungus" mean? **mushrooms**
- What is an example of a hereditary disease? **Haemophilia**
- Dialysis is used when a patient has serious trouble with? **Kidneys**
- Bronze is an alloy made of? **Copper and Tin**
- Which metal is the most abundant in the earth’s crust? **Aluminium**

- What is the main function of the kidney? **To remove waste products from the body**
- Which vitamin supports the healthy functioning of human eyes? **Vitamin A**
- What is the major constituent of air? **Nitrogen**
- What is the chemical name of vitamin C? **Ascorbic acid**
- Which glands secrete tears? **Lachrymal**
- Enzymes assist in? **digestion of food**
- What is the total volume of blood in a normal human being? **5–6 liters**
- "Dermatology" is a branch of medical science that deals with? **skin diseases**
- Which is not a primary colour? **Black**
- A human cell contains? **46 chromosomes**
- The age of a tree can be determined by? **Counting the number of rings in stem**
- During the daytime, plants? **Take in carbon dioxide and give out oxygen**
- The strongest muscles in the human body are found in? **buttocks**
- Which thing is resistant to fire? **Asbestos**
- An element that is common to all acids is? **Hydrogen**
- Food is cooked more quickly in a pressure cooker because? **Boiling point of water is increased**
- Oxygen was discovered by? **Priestley**
- Sea-horse is the name of which animal? **fish**
- The average male brain weighs _____ ounces? **49**
- Chemicals that kill rats and mice are? **rodenticides**
- Into how many regions is the brain mainly divided? **3**
- What is the approximate amount of blood in a healthy male body? **5 litres**
- The sunlight takes about _____ minutes to reach us? **eight**
- A cure for all diseases is known as? **panacea**
- Dilute acetic acid is the chemical name of? **Vinegar**
- Lactometer is an instrument used for measuring? **Density of Milk**
- Anaemia is caused by the deficiency of? **Iron**
- What is not a gland? **Kidney**
- What is the common name of washing soda? **Sodium carbonate**
- Light year is a unit of measurement of? **Stellar distances**
- What is the sun mainly composed of? **Hydrogen**
- What was the first metal discovered by man? **Copper**
- Ampere is the unit used to measure? **Electric Current**
- Which type of acid is used in car batteries? **Sulphuric Acid**
- Citrus fruit is the finest natural source of? **Ascorbic acid**
- What causes chicken pox? **Virus**
- Balloons are inflated with? **Helium**
- Who formulated the law of gravitation? **Newton**
- Food is usually digested in the? **Small Intestine**
- Which man-made fibre is known as? **artificial silk Rayon**

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- Who is credited with developing the polio vaccine? **Jonas Salk**
- Wood is the main raw material for which industry? **manufacture of paper**
- In which process is electrical energy converted into chemical energy observed? **Storage Battery**
- Which gas is the lightest? **Hydrogen**
- Who first measured the velocity of light? **Roomer**
- What causes a lemon to taste sour? **Citric acid**
- Which source of electricity is the cheapest and environmentally friendly? **Hydro electric**
- Who discovered the circulation of blood in the human body? **William Harvey**
- Which metal is found in the greatest abundance on the earth's surface? **Aluminium**
- Stainless steel is an alloy of iron and? **Chromium**
- The speed of sound is maximum in? **Solids**
- Metrology is the study of? **Measurement**
- LPG consists mainly of? **Propane and butane**
- The formula of Quartz is? **SiO_2**
- Which substance is present inside the cavity of bones? **Bone Marrow**
- Who first demonstrated radio waves? **Heinrich Hertz**
- Who invented the thermometer? **Galileo Galilei**
- Which mosquito acts as the carrier for dengue virus? **Female Aedes aegypti**
- The scientific study of fossils is called? **Paleontology**
- Chemical formula of washing soda is? **$Na_2CO_3 \cdot 10H_2O$**
- What is meteorology? **Science of atmosphere**
- How many times does sound travel faster in water than in air? **About four times**
- Photosynthesis in plants takes place faster in? **white light**
- Proton was discovered by? **Rutherford**
- The mercury thermometer was invented by? **Daniel Fahrenheit**
- Muscular and nervous disorders are owing to lack of? **Vitamin E**
- Who discovered DNA model? **Watson and Crick**
- The largest cell in the human body is? **Ovum / female egg cell**
- Dialysis is a process used for cleaning? **blood**
- Which process is used for the separation of oxygen and hydrogen from water (H_2O)? **Electrolysis**
- The most important natural event in the nutrient cycle is? **Decomposition**
- ECG is used for the diagnosis of ailments related to? **Heart**
- Which organ in the body accumulates iodine? **Thyroid gland**
- Which one is not a primary colour? **Orange**
- Silk is produced by? **Larva of Silkworm**
- Which gas is used in refrigeration? **Ammonia**
- What is Chlamydomonas? **An algae**
- Hematology is the study of? **Blood**

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- Which gas is used in neon signs? **Neon**
- The normal pulse beat in a human body per minute is between? **72–80**
- What is philology? **Scientific study of literary texts**
- Inflammation of what is caused by hepatitis? **Liver**
- Which part of the body is directly affected by pneumonia? **Respiratory system**
- Physiotherapy is a treatment method for? **Immobility of joints**
- Which is the lightest metal? **Lithium**
- Anything that occupies space and possesses weight is called? **Matter**
- Which have maximum calories? **Fats**
- Which is a chemical reaction? **Rusting of iron**
- Which organ of the body produces urine? **Kidney**
- Which vitamin cannot be retained in the human body? **Vitamin C**
- Which material is used to convert solar energy? **Photovoltaic Panels**
- Which gas is the most toxic**? Carbon monoxide**
- Of the following human bones, tell which one is of neck**? Atlas**
- Which is produced by hybridization and selective breeding? **Neeli-Ravi Buffalo**
- What is meant by "Acoustics"? **Science of Sound**
- Of the following liquids, the most buoyant is? **Saltwater**
- Which one is not a chemical reaction? **Conversion of water into stream**
- A dress made from which of the following materials is safest to wear while cooking? **Cotton**
- Jaundice affects the ___ of the human body? **Liver**
- Meteorology is the science of? **Weather**
- Which one has the highest electrical conductivity? **Silver**
- Mirage is an example of? **Refraction of Light**
- Which component of the diet helps prevent constipation? **Fiber**
- Which metal is liquid at room temperature? **Mercury**
- Ecology is concerned with? **Relations between Organisms and their Environment**
- Which hormone is responsible for the production of milk in the human body? **Prolactin**
- Dolly was the name of? **First cloned sheep**
- Yoghurt is made by adding _____ to milk? **Bacteria**
- Cholesterol level is analyzed in which sample? **Blood**
- Which fruit or vegetable is a good source of potassium? **Spinach**
- The yeast used in bread making is a? **Fungus**
- Isotopes are atoms of the same element having different numbers of? **Neutrons**
- Diphtheria affects the _____ in the human body? **Throat**
- Liquids that evaporate rapidly are known as _____ liquids? **Volatile**
- A drop of water is roughly spherical because of? **Surface tension**
- Which is a vector quantity? **Velocity**
- What is dialysis meant for? **Kidneys**

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- What is the smallest gland in the body? **pineal gland**
- Which of the following metals is used for galvanizing iron? **Zinc**
- What do plants exhale during night? **Carbon dioxide**
- What would be the colour of the sky if there were no atmosphere? **Black**
- What is the breeding and management of bees known as? **Apiculture**
- Who proposed the special theory of relativity? **Albert Einstein**
- Through what can sound not travel? **Vacuum**
- In which medium is the velocity of sound maximum? **Steel**
- Bronchitis is a disease that affects the _____ in the human body? **Respiratory tract**
- Which of the following defends the body against disease and infection? **White Blood Cells**
- The Green House Effect is mainly caused by an excess of __ in the atmosphere? **Carbon dioxide**
- What will happen if a ship travels from fresh water to a sea or ocean? **Rise a little higher**
- A specialist who measures your eyesight is called? **Optometrist**
- Day and night are the results of? **Earth's rotation around its axis**
- What is a calorie? **Unit of quantity of heat**
- From where does the Earth move? **West to East**
- Who is called the Father of Modern Astronomy? **Nicolas Copernicus**
- Earth's surface temperature has mainly increased because of? **Higher level of CO_2 concentration**
- Decibel is the unit used to measure? **Sound**
- HIV stands for? **Human Immunodeficiency Virus**
- Which are the primary colors? **Red, Yellow, Blue**
- What gas is used in an electric bulb? **Nitrogen Gas**
- Why is muscular fatigue felt after strenuous physical work? **Accumulation of lactic acid in the muscles**
- "Nephrology" is the science of? **Kidneys**
- Which planet is nearest to the Earth? **Venus**
- Which city is also known as the City of Canals? **Venice**
- Which element is the most abundant in the Earth's crust? **Oxygen**
- Exposure to sunlight leads to the formation of _____ in the body? **Vitamin D**
- How many chromosomes are present in man, including the two (X&Y) that determine the sex of an organism? **46**
- A gas heater provides us heat by what means? **Convection**
- Wind energy is a good example of? **Kinetic energy**
- Identify the Kharif crop? **Sugarcane**
- Which of the diseases is caused by a virus? **Small pox**
- Who invented the battery? **Volta**
- Which is the largest living mammal? **Blue whale**

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- What is the uncharged particle in an atom called? **Neutron**
- What is meant by Dengue? **Break bone fever**
- Which is the most abundant mineral in the human body? **Calcium**
- Which organs produce urea in the human body? **Liver**
- Which acid is used in a car battery? **Sulfuric Acid**
- The stimulant present in tea leaves is called? **Caffeine**
- What is CuSec a unit of? **Water flow**
- CNG stands for? **Compressed Natural Gas**
- What is the temperature of the human body? **37°C**
- Which vegetable is a rich source of Vitamin A? **Carrot**
- Which is the main constituent of hemoglobin? **Iron**
- Where are flat bones found in the human body? **skull**
- What is the process called when a gas turns into a liquid? **Condensation**
- The third most abundant element in Earth's crust is? **Aluminium**

Science Past Papers 2014

- Which part of the human body is most affected by the Hepatitis virus? **Liver**
- What is the unit of current? **Ampere**
- What is understood by the word 'Insomnia'? **Inability to sleep**
- Night blindness is caused by the deficiency of which vitamin? **Vitamin A**
- Which gas is used to extinguish fire? **Carbon dioxide**
- Which element is common to all acids? **Hydrogen**
- On the earth, a moving body ordinarily comes to rest by itself because of the? **Forces of friction**
- Green vegetables are a rich source of? **Minerals and vitamins**
- The substances produced by the human body to fight against disease germs are called? **Antibodies**
- What is meant by the term myopia? **Short sightedness**
- What is used in ordinary pencils? **Graphite**
- How many laws of motion did Newton give? **3**
- Which infectious disease is transmitted from one person to another through air? **Tuberculosis**
- "To every action there is always an equal and opposite reaction" is which law of Newton? **3rd Law of Motion**
- Which is the most abundant component of the atmosphere? **Nitrogen**
- Drugs that calm the nervous system and prevent worry, tension, etc. are called? **Tranquilizers**
- Deficiency of what is indicated by tooth decay? **Fluorine**
- The 'sun' is mainly made up of? **Hydrogen**
- Which item is a source of protein? **Meat**

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- A sea-horse is a _____? **fish**
- Which is a man-made material? **Plastic**
- What makes it difficult to cook on mountains? **Low atmospheric pressure**
- The humidity in the air indicates the ratio of? **Water vapors**
- The amount of carbon dioxide inhaled in air is approximately? **0.04%**
- Ozone layer protects life on earth from? **Ultraviolet rays**
- Sunlight falling on our skin causes it to produce? **Vitamin D**
- Diabetes is caused by the deficiency of? **Insulin**
- What is the chemical formula for water? **H_2O**
- The average male brain weighs _____ ounces? **49**
- Which toxic gas is produced when coal is burned without an adequate supply of air? **Carbon monoxide**
- The average female brain weighs _____ ounces? **44**
- Gynaecology is a branch of? **Medicine**
- Why does a tiny steel ball sink in water while a much larger ship floats? **It displaces water that has more weight than the ship**
- When connecting car batteries, the red wire must be connected to the? **Positive terminal**
- Which type of phosphorus is used in safety matches? **Red phosphorus**
- Light travels at nearly what speed? **300,000 km per second**
- What harmful radiation is emitted by a nuclear bomb? **Gamma Rays**
- Nuclear bomb and/or nuclear reactor generates heat through? **Chain Reaction**
- What does a water molecule contain? **Hydrogen and Oxygen atoms**
- The water in Tarbela Dam is allowed to flow out through tunnels to? **Produce electricity through turbines**
- What is the common name for washing soda? **Sodium carbonate**
- Which does the north pole of a magnet repel? **North Pole**

Science Past Papers 2013

- Compressed Natural Gas (CNG) has the same chemical composition as which of the following? **Sui Gas**
- A colour television set produces colours by mixing light of which three different colours? **Blue, Green and Red**
- The production of energy in stars is due to? **Fusion of light nuclei**
- A doctor who specializes in skin diseases is called? **Dermatologist**
- What is the filament of an electric bulb made of? **Tungsten**
- A person with which blood groups can receive blood of any group? **AB positive**
- Who carried out the first kidney transplantation? **Richard Lawler**
- Which organ filters blood in the human body? **Kidney**
- What is “Anaemia”? **Bloodlessness**

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- What does the pancreas secrete? **Insulin**
- Hepatitis C is a major cause of? **Chronic liver disease**
- "Manometer" is an instrument used for measuring? **Gaseous Pressure**
- What does a chronometer measure? **Time**
- What is the lifespan of white blood cells? **5–21 days**
- Carnivores are animals that feed on? **Other animals**
- At night, plants give out? **Carbon dioxide**
- Which vitamins are stored in the liver? **Vitamin A**
- Dead red blood corpuscles are stored in? **Spleen**
- What is the chemical name for bleaching powder? **Calcium Hypochlorite**
- The speed of sound is _____ than the speed of light? **Less than**
- Which element is needed for solar energy conversion? **Silicon**
- Which one is not a primary colour of light? **Yellow**
- A paratrooper jumping from a plane will experience a state of? **Weightlessness**
- What helps in the clotting of blood? **Platelets**
- The _____ of a substance changes on heating? **Volume**
- Which element is known as the "earth maker"? **Silicon**
- Healthy functioning of eyes in human beings is due to? **Vitamin A**
- The age of a tree can be determined by? **Counting the number of rings in stem**
- Through which medium does sound travel fastest? **Steel**
- Who was the scientist who first discovered that the earth revolves round the sun? **Copernicus**
- Autopsy is related to which of the following? **Post-mortem**
- Which one is not a mammal? **Fish**
- What was discovered by Alexander Fleming? **Penicillin**
- Cloudy nights are warmer due to the following? **Clouds prevent radiation of heat from ground to air**
- Trachoma is a disease of the? **Eye**
- Leukemia is a disorder of the following? **Blood**
- Dengue fever is caused by the dengue virus? **Aedes aegypti**
- Why is a red light used in traffic signals? **It has the longest wavelength and can be easily noticed from a long distance**
- What do plants do during the daytime? **Take in carbon dioxide and give out oxygen**
- Enzymes help in? **digestion of food**

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Science Past Papers 2012

- In the human bloodstream, what does hemoglobin carry and absorb? **Oxygen**
- Which disease is caused by a virus? **Smallpox**
- The disease in which the bronchial tubes become narrow due to spasms of the bronchial muscles is called? **Asthma**

- Which substance is used in matchsticks? **Phosphorus**
- What is the shape of our Milky Way galaxy? **Spiral**
- The main component of haemoglobin is? **Iron**
- What did Isaac Newton give? **Laws of Motion and Laws of Gravitation**
- Myopia is a defect of vision in which what becomes blurred? **Distant objects**
- Which disease is genetically inherited? **Colour blindness**
- Which roundworm enters the human body through the soles of the feet? **Hookworm**
- DNA is a term frequently used in forensic investigations. What does DNA stand for? **Deoxyribo-Nucleic Acid**
- Which is a hereditary disease? **Haemophilia**
- Which planet is the brightest in our solar system? **Venus**
- How many chambers does the heart have? **4**
- Tuberculosis is what type of infection? **Bacterial**
- Which is the most abundant element in the universe? **Hydrogen**
- What is the shape of the heart? **Conical**
- What is the colour of chlorophyll? **Green**
- What are vaccines? **Treated bacteria or viruses or one of their proteins**
- What is the shift in the frequency of sound waves, higher as they approach and lower as they move away from you, called? **Doppler Effect**
- How much time is required for moonlight to reach the earth? **1.3 second**
- Into what are all the forms of energy that we use ultimately transformed? **Heat energy**
- Which type of radiation is absorbed by the upper layer of the atmosphere? **Ultraviolet**
- Why is a woman's voice shriller than a man's? **Higher frequency**
- Amino acids are produced by the digestion of? **Proteins**
- Plutonium is used as? **Fuel for nuclear fission**
- After drinking contaminated water, you would be most likely to develop symptoms of? **Typhoid fever**
- Which gland helps maintain body temperature? **Hypothalamus**
- At what temperature does water boil? **100°C**
- Meningitis is a disease of human beings that affects? **Central Nervous System**
- The gases used by divers as an artificial atmosphere are oxygen and? **Helium**
- Artificial dialysis is a substitute for? **Kidneys**
- The "stones" formed in the human kidney mostly consist of? **Calcium oxalate**
- Fluorescent tubes are equipped with a choke. The choke? **Reduces current in the circuit**
- What is the common name of sodium chloride? **Salt**
- What is the instrument used to determine the specific gravity of liquids? **Hydrometer**
- Echo is the effect produced due to? **Reflection of sound**
- In plants and animals, nitrogen is present in the form of? **Proteins**

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- Which colour has the longest wavelength? **Red**
- Diabetes is caused by the malfunctioning of? **Pancreas**
- By using which phenomenon can sea water be converted into fresh water? **Reverse osmosis**
- Which component of the diet helps prevent constipation? **Fiber**
- Which gas is used in making soft drinks? **Carbon dioxide**
- What does the rusting of iron involve? **Oxidation**
- Which positively charged particle is emitted by a radioactive element? **Alpha rays**
- Biology is the study of? **All living things**
- Which food has the highest concentration of protein and iron? **Meat**
- Which vitamin is destroyed by heating? **C**
- Which gas is commonly used in balloons and airships? **Helium**
- Parkinson is a disease associated with? **Brain**
- Which one is not a chemical reaction? **Conversion of water into steam**
- The velocity of wind is measured by? **Anemometer**
- What is the approximate percentage of oxygen by volume in the atmosphere? **21%**
- Which gas is used in advertising lights? **Neon**
- What is the branch of medicine that studies blood and its disorders? **Hematology**
- In plants, the process of photosynthesis takes place in? **Leaf**
- In the human body, where is insulin produced? **Pancreas**
- Which is a source of energy that is renewable? **Water**
- How much time does light take to reach the Earth? **8 minutes 15 seconds**
- What does paediatrics refer to? **Care of children**
- In which disease do germs enter through open wounds? **Tetanus**
- Which part of the cell is essential for protein synthesis? **Ribosome**
- Cow milk is a rich source of? **Vitamin A**
- Acquired Immuno-Deficiency Syndrome (AIDS) is caused by? **Virus**
- Who is regarded as the founder of modern chemistry? **Antoine-Laurent Lavoisier**
- What is the study of food called? **Bromatology**
- ECG is used for the diagnosis of ailments of which organ? **Heart**
- Which metal is both magnetic and radioactive? **Thorium**
- Which is the immediate source of energy available to athletes? **Carbohydrates**
- Who gave the theory of mutations? **Hugo de Vries**
- Which is an essential component of the diet? **Starch**
- Light travels at a speed of about _____ miles per second? **1,86,000**
- The AIDS virus destroys the _____ system of the human body? **Immune**
- Sunlight is made up of? **Seven colours**
- Which contains the maximum amount of protein? **Ground nut**
- Hemoglobin in the blood is a complex protein that is rich in? **Iron**
- Which is not an infectious disease? **Hysteria**

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- What is the main function of the kidneys? **Removal of urea and other nitrogenous wastes from blood**
- Which gives maximum energy in the metabolic process? **Fats**
- What is the study of wood called? **Xylology**
- Who invented the electric motor? **Michael Faraday**
- Which is the poorest conductor of electricity? **Wood**
- From what is nuclear energy obtained? **Uranium**
- Who invented the Thermos Flask? **James Dewar**
- Which scientist is known for inventing the helicopter? **Igor Sikorsky**
- Jaundice is a disease of which organ? **Liver**
- Who invented vulcanite rubber? **Charles Goodyear**
- The pressure cooker gave great relief to housewives? **Denis Papin**
- Knitting machines are the backbone of hosiery. Can you tell who invented the knitting machine? **William Lee**
- Oncology is the study of? **Cancer**
- Who discovered X-rays? **Wilhelm Conrad Rontgen**
- By what is electric current measured? **ammeter**
- Television plays a very important role in today's life. Can you tell the name of the scientist who invented television? **J.L. Baird**
- What do plants exhale at night? **Carbon Dioxide**

Science Past Papers 2011

- What is rusting of iron? **Chemical Process**
- What does the decibel unit measure? **Intensity of Sound**
- How many bones are there in a newborn infant? **300**
- Coulomb is the unit of? **Electrical charge**
- Who discovered oxygen? **Joseph Priestley**
- What is a spectrometer used to study? **Spectrum**
- Convex lenses are used to correct which defect? **Long sightedness**
- What is the number of beats per minute of the human heart? **72**
- Approximately how many bones are there in the human body of an adult? **206**
- The substances produced by the human body to fight disease-causing germs are called? **Antibodies**
- Which part of the human body is more vulnerable to damage from the Hepatitis virus? **Liver**
- What is the normal body temperature of a man? **36.9°C**
- Horsepower is equal to? **746 Watts**
- What does a light-year measure? **Distance B/w Stars**
- Vitamin C is also called ascorbic acid. Deficiency of vitamin C causes? **Scurvy**
- Which is the largest part of the human brain? **Cerebrum**

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- Which is the largest gland in the human body? **Liver**
- What is the main constituent of bones and teeth? **Calcium Phosphate**
- What is the gravitational force on a body called? **Weight**
- Mirage is an example of? **Refraction of Light**
- Cusec is the unit of? **Water flow**
- Deficiency of one of the following is cause of goiter? **Iodine**
- What is the total volume of blood in a normal adult human being? **5-6 Liters**
- Which gland in the human body is known as the master gland? **Pituitary**
- Which disease is caused by a virus? **Small pox**
- Which planet is nearest to the Sun? **Mercury**
- In humans, the medulla oblongata is a part of? **Brain**
- Rickets is a condition of abnormal bone formation in children caused by the deficiency of? **Vitamin D**
- Which disease is not related to the malfunctioning of the lungs? **Anemia**
- German silver is an alloy made of? **Copper, nickel and zinc**
- A person climbing a hill bends forward in order to? **Increase stability**
- What is an electric motor used to convert? **Electrical energy into mechanical energy**
- Individuals with which type of blood are known as universal donors? **Type O**
- Air is completely removed from an electric bulb to avoid? **Oxidation of tungsten filament**
- The equation $E = mc^2$ is associated with? **Albert Einstein**
- Into what is human blood divided? **Four groups**
- One gram of carbohydrates provides how much energy? **4.1 K Calories**
- When the door of a working refrigerator is opened, the temperature of the room will? **Increase**
- What do you mean by the disease “Insomnia”? **Inability to sleep**
- Penicillin, an antibiotic, is obtained from which source? **Fungus**
- What is used in semiconductors? **Silicon**
- Who is known as the father of medicine? **Hippocrates**
- What are radio waves? **Electromagnetic waves**
- The release of energy in the sun is due to? **Fusion reaction**
- The silvered surface of a thermos flask prevents the transfer of heat by? **Radiation**
- Green vegetables are a good source of? **Minerals and vitamins**
- What do we usually use for making a laser? **Ruby**
- Deficiency of iron in the human body causes? **Anemia**
- In which part of the human brain is the seat of memory located? **Cortex**
- In which part of the body is the tibia bone found? **Leg**
- Among all the gases present in the air, which one of the following has the highest percentage? **Nitrogen**
- Through which of the following is the speed of sound the greatest? **Glass**

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- _____ are crucial to the ecosystem because they recycle nutrients from organisms back to the environment? **Decomposers**
- What is the study of forces acting on bodies moving in the air called? **Aerodynamics**
- On which principle is the atom bomb based? **Nuclear fission**
- In which part are the lungs situated? **Thoracic cavity**
- What is the study of animal behaviour called? **Ethology**
- Which disease is infectious? **Measles**
- Which is a good source of vitamin C? **Orange**
- What is the science of human races called? **Anthropology**
- On what is a biopsy done? **Tissue taken from a living body**
- A ball in motion stops because of the action of? **Frictional Force**
- Which is the second most abundant metal present in the earth's crust? **Iron**
- People whose blood has a reduced capacity to deliver oxygen to the tissues suffer from? **Anaemia**
- Who discovered the law of gravitation and the three laws of motion? **Sir Isaac Newton**
- Which one is not a primary colour? **Black**
- The greenhouse effect results from the trapping of? **Infrared radiations**
- A colourblind person cannot distinguish red from which colour? **Green**
- Who developed the vaccination for smallpox? **Edward Jenner**
- Malaria is caused by? **Protozoa**
- Who discovered the circulation of blood in the human body? **William Harvey**
- Which is the largest planet in the Solar System? **Jupiter**
- The escape velocity of a rocket launched from the Earth towards the moon is the velocity required to get rid of the? **Earth's gravitational pull**
- What is the inactive stage in the life cycle during which an animal stores a lot of food inside its body and develops a covering around its body called? **Pupa**
- For safety, the fuse wire used in the household mains electricity supply must be made of a metal having? **low melting point**
- Lenz's law of electromagnetism is a result of the law of conservation of? **Energy**
- Which negatively charged particles revolve around an atom's nucleus? **Electrons**
- Why does an object weigh less at the equator than at the poles? **the force of gravity is less at the equator than at the poles**
- An analgesic is taken to relieve one of? **Pain**
- Why does an ice cube float on water but sink in alcohol? **the ice cube is lighter than water and heavier than alcohol**
- Which vitamin promotes the healthy functioning of the eyes in human beings? **Vitamin A**
- What is the colour of chlorophyll? **Green**
- An iceberg is floating in the sea. Out of 10 parts of its mass, how many parts will remain above the surface of the water? **One part**
- Which halogen is the most reactive? **Fluorine**

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- What does a chronometer measure? **Time**
- By the use of what can long-sightedness be corrected? **Convex lens**
- Which of the following metals is used for galvanizing iron? **Zinc**
- Alum is used for purifying drinking water? **for coagulation of mud particles**
- How many chromosomes are present in a body cell of human beings? **46**

Science Past Papers 2010

- Fear of enclosed spaces is called? **Claustrophobia**
- Which component of the diet helps prevent constipation? **Fiber**
- Night blindness is due to the lack of? **Vitamin A**
- Which protect the body against disease and infection? **White Blood Cells**
- Why do people prefer to wear white clothes during summer? **because Do not absorb heat**
- What is another name for Vitamin C? **Ascorbic Acid**
- Which symptom results from a deficiency of vitamin D? **Bones breaking easily**
- Which gas is present in the greatest amount in the Sun? **Hydrogen**
- Whooping cough is caused by? **Bacteria**
- Which organ produces urine? **Kidney**
- The main component of Sui Gas is? **Methane**
- A type of heart disease in which the blood supply to the heart is insufficient is known as? **Angina**
- Amnesia is related to? **Loss of memory**
- Brass is an alloy of copper and? **Zinc**
- What is gunpowder? **Mixture**
- Which was the most famous genetic disease associated with Queen Victoria and spread among European royalty? **Haemophilia**
- Yeast is? **Fungus**
- Blood is purified by? **Kidney**
- The red colour of blood is due to the presence of a pigment known as? **Haemoglobin**
- Which helps in the clotting of blood? **Vitamin K**
- What is the sensitive layer of the eye? **Retina**
- What do we use for water purification? **Chlorine**
- How many pairs of ribs are there in the human body? **12**
- Metallurgy is the science of? **Ores and Metals**
- In which part is food normally digested? **Small Intestine**
- Hepatitis A is passed from one individual to another by? **Water**
- The ore from which radium is extracted is called? **Pitchblende**
- Fluid is most opposite to? **solid**
- What are white blood cells called? **Leukocytes**
- The coldest planet is? **Uranus**

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- Which are produced by the electrolysis of brine? **Hydrogen and chlorine**
- The gland which maintains body temperature is the? **Hypothalamus**
- Which non-metals is a liquid? **Bromine**
- Of the following items, tell which one is present in stomach? **Gastric juice**
- Of the following human muscles, tell which one is of thigh? **Vastus externus**
- A species having both male and female organs is known as? **Hermaphrodite**
- Which disease is caused by virus? **Smallpox**
- Of the following human bones, which one is of arm? **Radius**
- Of the following diseases, which one is respiratory in nature? **Emphysema**
- Of the following diseases, tell which one is concerned with the eyes? **Glaucoma**
- T-cells are a vital part of the body's defence system; which gland in the body produces T-cells? **Thymus gland**
- What is the velocity of sound in air per second? **331 meters**
- Which does not provide energy? **Water**
- Which will you use to remove rust stains on cloth? **Oxalic Acid Solution**
- Citrus fruit is the best natural source of? **Citric acid**
- How long does the brain take to die after blood circulation stops? **About five minutes**
- The doctor took out his ___ to check the patient? **Stethoscope**
- Which is the most abundant element found in the earth's crust? **Oxygen**
- A person with which of the following blood groups is called a universal donor? **O-ve**
- In which part are red blood corpuscles formed? **Bone Marrow**
- Which plant is the heaviest? **Giant sequoia**
- What is the instrument designed to test the purity of milk called? **Lactometer**
- What provides the centripetal force to the satellite? **Force of gravity**
- What is the sound intensity during a normal conversation? **30–60 decibel**
- While putting the satellite into orbit, it is given an appropriate _____? **Tangential (or orbital) velocity**
- If there was no CO_2 in the earth's atmosphere, the temperature of earth's surface could be _____? **Less than the present**
- The greenhouse effect in relation to global climate refers to _____? **Warming of earth**
- Friction can be lessened by changing from _____? **sliding to rolling**
- What is the branch of medicine that deals with skin called? **Dermatology**
- What is the name of the mosquito that causes malaria fever? **Anopheles**
- Entomology is the science that studies? **Insects**
- What is chemotherapy? **Use of non-antibiotic chemical substance to treat disease (most often cancer)**
- What is meant by IAEA? **International Atomic Energy Agency**
- What is the process of bleaching by chlorine called? **Oxidation**
- Pomology is the branch of science that deals with? **The study and cultivation of fruits**
- Beriberi is caused by the deficiency of which vitamin? **Thiamine**

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- "Sphygmomanometer" is used to measure? **Blood Pressure**
- A clinical thermometer is an instrument used to measure? **Temperature of human body**
- Why does the electric bulb break with a bang? **Because the air rushes to fill the partial vacuum inside**
- Why is mercury used in thermometers? **It is the only metal which is liquid at ordinary room temperature**
- Why does a hydrogen balloon rise in the air? **Because hydrogen is lighter than air**
- At what temperature are the readings on both the Fahrenheit and Centigrade scales the same? **-40 degree**
- What is carbon dioxide? **An acidic oxide**
- Which element has the atomic number 92? **Uranium**
- Each leg consists of _____ bones? **30**
- Iodine is given to patients suffering from? **Goiter**
- What is the instrument used to compare the intensities of two sources of light called? **Photometer**
- Which are the most common elements found in the earth's crust? **Silicon, aluminium and oxygen**
- What is the SI unit of charge? **Coulomb**
- The substance used in matchsticks is? **Phosphorus**
- Myopia is a defect of vision of which part? **Distant objects**
- For measuring the growth of plants, which instrument is used? **Crescograph**
- Artificial gravity in the space-ship (or satellite) is provided by _____? **Rotating it around its own axis**
- "Hygrometer" is an instrument used to measure? **Relative humidity of the atmosphere**
- A roundworm that enters the human body through the soles of the feet is called? **Hookworm**

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Science Past Papers 2009

- What is the AIDS virus called? **H.I.V**
- Vitamin C is also called Ascorbic Acid. What does the deficiency of vitamin C cause? **Scurvy**
- Agoraphobia is the fear of? **Open Places**
- Which fertilizer contains a high percentage of nitrogen? **Urea**
- Hepatitis and jaundice are the diseases of? **Liver**
- Which vitamin is present in high concentration in almonds? **Vitamin E**
- How many colours does a spectrum have? **7**
- Earth's surface temperature has mainly increased because of? **Higher level of CO_2 concentration**
- What is Alzheimer disease? **a brain wasting disease**

- What is the body temperature of a normal man? **36.9°C**
- What is the main function of the kidney? **to remove waste products from body**
- The speed of sound is ____ the speed of light? **less than**
- Why is it dangerous to sleep under trees at night because plants give out? **Carbon dioxide**
- The Earth's rotation around its axis causes? **Day and night**
- Which disease is spread through sexual contact? **Gonorrhoea**
- Which type of food should be avoided as much as possible to maintain healthy teeth? **Sugary food**
- Which disease is caused by a shortage of red blood cells? **Anaemia**
- Haemoglobin in the blood is a complex protein that is rich in? **Iron**
- Which one is an ore of iron? **Haematite**
- Which copper alloy is used in the manufacture of springs and suspension filaments in electrical instruments? **Phosphorus bronze**
- Which disease is more common in women than in men? **Rheumatoid arthritis**
- Amino acids are produced by the digestion of? **Proteins**
- Which is the most abundant source of ascorbic acid? **Guava**
- What provides energy to the human brain? **Glucose**
- How much time does light take to reach the Earth from the Sun? **8 minutes 20 seconds**
- Which substance is used as a food preservative? **Sodium benzoate**
- What is a mixture of two metals called? **Alloy**
- An analgesic is taken to relieve a person of? **Pain**
- What is the shape of our Milky Way galaxy? **Spiral**
- Which is not one of the functions of the liver? **Reproduction**
- How many chromosomes are present in a body cell of human beings? **46**
- Which substance is produced by the blood to counteract the effects of poison or infection? **Antibodies**
- What is the nearest part of the atmosphere to the Earth? **Troposphere**
- Which has the maximum calorific value? **Fats**
- How many bones does a newborn baby have? **300**
- What did Isaac Newton give? **Laws of Motion and laws of Gravitation**
- Which gland is known as the master gland in the human body? **Pituitary**
- Which part of the human body is more vulnerable to damage from the "Hepatitis Virus"? **Liver**
- What is the unit used to measure the energy requirements of the human body? **Calorie**

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Science Past Papers 2008

- In a photographic camera equipped with a convex lens, which type of image is formed on the film? **Inverted and real**

- What is the average number of heartbeats per minute in a normal man? **70**
- Which is not high in protein? **Potatoes**
- The age of a tree can be determined from its? **Number of Rings on its trunk**
- Which gas is used in decorative lighting? **Neon**
- "Ornithology" is the study of? **Birds**
- Which is the only vitamin that the human body can produce? **Vitamin D**
- Which instrument is used to measure air pressure? **Barometer**
- A dosimeter is a device used to measure? **Nuclear radiation for safety purposes**
- Which part of the human body is similar to a computer? **Brain**
- What is the term for the time during which an organism is present in the body before causing disease? **Incubation period**
- Approximately how much blood does the heart of an average human pump every minute? **6.2 litres**
- What is the fourth state of matter called? **Plasma**
- Diabetes is caused by the deficiency of? **Insulin**
- Which type of energy is stored in a dry cell? **Chemical**
- Which gas is used to destroy bacteria in water? **Chlorine**
- Which materials are generally used as solder in soldering operations in electronics? **Lead and tin**
- What are vaccines? **Treated bacteria or viruses or one of their proteins**
- Which one is an alloy? **Bronze**
- Which organ is not an excretory organ? **Adrenal gland**
- What is the unit used for measuring the intensity of noise? **Decibel**
- Which element is commonly found in glass, cement, china clay, and quartz? **Silicon**
- A photoelectric cell transforms? **Light energy into electrical energy**
- Which scale was invented by Celsius? **Centigrade**
- To be able to see three-dimensional pictures, we have to use? **A stereoscope**
- What is the chemical name of laughing gas? **Nitrous oxide**
- The average female brain is ____ ounces? **45**
- Which component of blood carries food materials to every tissue of the body? **Plasma**
- When water is heated from 0°C to 10°C, what happens to the volume of water? **First decreases, then increases**
- Which planet is nearest to Earth? **Venus**
- In fact, the sky above the Earth looks? **Blue**
- Which vitamin affects the ability to see in dim light? **A**
- Who is regarded as the father of motion pictures? **Thomas Edison**
- What is the study of human cultures called? **Anthropology**
- The image formed on the retina of the eye is? **Real and inverted**
- Lungs are part of the? **Respiratory system**
- What do you understand by the disease called "Insomnia"? **Inability to sleep**

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- A man is ordering a lens to use as reading glasses. Which lens should he order? **A large convex lens with short focal length**
- How many muscles are there in the human body? **639**
- Urine is formed in? **Kidney**
- Who discovered oxygen gas? **Priestley**
- What are bacteria? **Microorganism**
- What are rest and motion? **Relative terms**
- "Parkinson" is a disease of which organ? **Brain**
- Topology is? **Branch of mathematics**
- What do green vegetables provide us? **Vitamins & Minerals**
- Carrots, especially when eaten raw, are a good source of which vitamin? **A**

Science Past Papers 2007

- Insulin is secreted by _____? **pancreas**
- Zero degrees Fahrenheit is equal to? **–18°C**
- What does evaporation cause? **cooling**
- Which is the most widely used and popular industrial fuel? **Coal**
- A proton is considered _____? **heavier than electron**
- Anaemia is the condition of the body when? **there is marked reduction of red cells in blood**
- From what are proteins obtained? **milk, meat, eggs, soya beans**
- Who invented the telephone? **Alexander Graham Bell**
- The blood system of man is _____? **closed**
- Coal is the remains of? **ancient trees and plants**
- Some colours can be obtained by mixing other colours together. They are called? **secondary colours**
- Why do the stars twinkle? **of the disturbances in the atmosphere of different densities**
- With an increase in temperature, the viscosity of _____? **gases increases and liquids decreases**
- Which planet in the Solar System has the shortest year? **Mercury**
- Leukaemia is a type of cancer in which there is an abnormal increase in the number of _____? **white blood cells**

Science Past Papers 2006

- What kind of animal is a whale? **A mammal**
- Which vitamin does sunlight provide to the human body? **Vitamin D**
- Who discovered the antibiotic (Penicillin)? **Alexander Fleming**
- The theory of relativity was proposed by? **Einstein**
- What causes chicken pox? **Virus**

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- Chronometer is used to measure? **Time**
- What is the approximate amount of blood in the body of a healthy male? **5 liters**
- Anaemia is caused by the deficiency of? **Iron**
- What is the unit used to measure electric current? **Ampere**
- Into how many main regions is the brain divided? **3**

Science Past Papers 2005

- Alzheimer's disease in human beings is marked by the degeneration of? **Nerve cells**
- Diabetes is a disease of which organ? **Pancreas**
- In $E = mc^2$, what is c? **Velocity of light**
- What is meant by H5N1? **Virus**
- What are chromosomes? **Made up of DNA as a main component**
- Appendicitis is the inflammation of which organ? **appendix**
- Which blood vessels carry blood from different parts of the body to the heart? **Veins**
- What is meant by nuclear fission? **Atom splits into two masses**
- Which is the largest gland in the human body? **Liver**
- What is the lightest substance known? **Hydrogen**
- Which is the best conductor of electricity? **Silver**
- The particle of an atom that has no charge is? **Neutron**

Science Past Papers 2004

- How many chromosomes are present in a man, including the two (X and Y) that determine the sex of an organism? **46**
- Quartzite is metamorphosed from? **Sandstone**
- Very High Frequency has _____ wavelength? **Shorter**
- Which cell organelles have the most important role in protein synthesis? **Endoplasmic reticulum and Ribosome**
- Which animals are able to hear ultrasonic sound? **Bat**
- An orbiting satellite around the Earth gets centripetal force from? **The gravitational pull of the Earth on the satellite**
- "Lactometer" is an instrument used to estimate the purity of? **Milk**
- A mobile phone sends and receives messages through? **Radio waves**
- The required centripetal force for a car moving around a curved track is provided by? **The force of friction**
- What is the density of water? **1 g/cm³**
- Long-sight defect can be corrected by using _____? **Convex**
- The life span of red blood cells is? **120 days**
- A deficiency of Vitamin A results in? **Night blindness**
- One horsepower is equal to how many watts? **746 W**
- Stainless steel is an alloy of? **Iron, chromium and nickel**

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- Why does acid rain destroy vegetation because it contains? **Sulphuric acid**
- What is the atmospheric pressure at sea level? **760 mm**
- What is the filament of an electric bulb made of? **Tungsten**

Science Past Papers 2002

- Which is the unit of energy? **Joule**
- Why do people prefer to wear white clothes during summer? **Do not absorb heat**
- Which substance remains liquid at room temperature? **Mercury**
- Which disease is transmitted by dogs? **Rabies**
- Which is a rich source of vitamin C? **Orange**
- Which chemical is used to disinfect swimming pool water? **Chlorine**
- Which of these carries a negative charge? **Electrons**
- Which disease is communicable? **Measles**
- By whom was the Law of Gravity discovered? **Newton**
- Light year is? **Distance travelled by light in one year**
- What is the hardest substance on Earth? **Diamond**
- What is added to lead pencils? **Graphite**
- Which fruit is the richest in vitamin C? **Guava**
- How many chambers does the human heart have? **4**
- What is the pigment whose presence gives blood its red color? **Haemoglobin**
- Blood cells are produced by which part of the body? **bone-marrow**
- Anemometer is an instrument used for measuring? **Velocity of Wind**
- What happens to the temperature of boiling water at a higher elevation? **Decreases**
- Soda water is made carbonated by adding? **CO_2**
- Why is seawater salty? **Rivers carry soluble minerals from mountains, so water becomes saline**
- A small gap is left between two adjoining rails of a railway track because? **Metal expands on heating**
- X-Rays were discovered by? **Wilhelm Conrad Rontgen**
- The whale, the largest sea animal, breathes through its? **lungs**
- What is the main function of the kidneys? **Removal of urea and other nitrogenous wastes from blood**
- Why does the same side of the moon always face the earth? **The period of revolution of the moon around the Earth is equal to the period of rotation on its own axis**
- Why is frost generally not formed on cloudy nights? **Clouds prevent radiation and therefore help the ground temperature remain higher**
- The total number of bones in a human being is? **206**
- Lack of which vitamin causes night blindness? **Vitamin A**
- If a piece of iron remains exposed to air and moisture, it becomes rusted. Scientifically, rust is? **iron oxide**

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- How many colors are seen in the spectrum of sunlight? **7**
- Liver, milk, egg yolk, and fish liver oil are sources of which vitamin? **D**
- Approximately how much carbon dioxide is inhaled in air? **0.04%**
- Sea-horse is a? **Fish**
- Vitamin C is? **ascorbic acid**
- Hepatitis is a viral disease of which organ? **Liver**
- Which gas is used in advertising lights? **Neon**
- Which is the SI unit of temperature? **Kelvin**

Science Past Papers 2000

- Light is made up of ___ colours of the rainbow? **Seven**
- In which medium is the velocity of sound the greatest? **Steel rod**
- A fresh egg sinks in pure water but floats in saturated salty water. This is due to? **higher density of the salty water**
- As the temperature of water gradually increases, surface tension? **goes on decreasing**
- Which salt is most common in sea water? **Sodium Chloride**
- Which planet lies between Earth and Mercury? **Venus**
- The Earth's rotation around its axis causes? **Day & Night**
- In a photographic camera equipped with a convex lens, which of the following kinds of images will be formed on the film? **Inverted and real**
- Which planet is the hottest? **Venus**
- Which material is the most elastic? **Steel**

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