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General Science



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Q. 1 **Who suggested that most of the mass of the atom is located in the nucleus?**

- [A] Thompson
- [B] Bohr
- [C] Rutherford
- [D] Einstein

Answer Option [C]

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Q. 2 **Which one of the following is the petroleum wax?**

- [A] Paraffin wax
- [B] Jonoba wax
- [C] Carnauba wax
- [D] Bees wax

Answer Option [A]

**Explanation:** Paraffin wax is obtained from petroleum by dewaxing light lubricating oil stocks. It is used in candles, wax paper, polishes, cosmetics, and electrical insulators. It assists in extracting perfumes from flowers, forms a base for medical ointments, and supplies a waterproof coating for wood. In wood and paper matches, it helps to ignite the matchstick by supplying an easily vaporized hydrocarbon fuel.

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Q. 3 **Electric current is measure by**

- [A] commutator
- [B] anemometer
- [C] ammeter
- [D] voltmeter

Answer Option [C]

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Q. 4 **Monazite is an ore of**

- [A] titanium
- [B] zirconium
- [C] iron
- [D] thorium

Answer Option [D]

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Q. 5 **Quartz crystals normally used in quartz clocks etc. is chemically**

- [A] silicon dioxide
- [B] germanium oxide
- [C] a mixture of germanium oxide and silicon dioxide
- [D] sodium silicate

Answer Option [A]

Q. 6 **Fathom is the unit of**

- [A] sound
- [B] depth
- [C] frequency
- [D] distance

Answer Option [B]

Q. 7 **The type of glass used in making lenses and prisms is**

- [A] jena glass
- [B] soft glass
- [C] pyrex glass
- [D] flint glass

Answer Option [D]

Q. 8 **Nuclear fission is caused by the impact of**

- [A] neutron
- [B] proton
- [C] deuteron
- [D] electron

Answer Option [A]

Q. 9 **Isotopes are separated by**

- [A] crystallisation
- [B] sublimation
- [C] distillation
- [D] filtration

Answer Option [C]

Q. 10 **Which of the following is a non metal that remains liquid at room temperature?**

- [A] Phosphorous
- [B] Bromine
- [C] Chlorine
- [D] Helium

Answer Option [B]

Q. 11 **Wood is the main raw material for the manufacture of**

- [A] paint
- [B] paper
- [C] ink
- [D] gun powder

Answer Option [B]

Q. 12 **LPG consists of mainly**

- [A] methane, ethane and hexane
- [B] ethane, hexane and nonane
- [C] methane, hexane and nonane
- [D] methane, butane and propane

Answer Option [D]

Q. 13 **Non stick cooking utensils are coated with**

- [A] Teflon
- [B] PVC
- [C] black paint
- [D] polystyrene

Answer Option [A]

Q. 14 **From which mineral is radium obtained?**

- [A] Rutile
- [B] Haematite
- [C] Limestone
- [D] Pitchblende

Answer Option [D]

Q. 15 **The filament of an electric bulb is made of**

- [A] tungsten
- [B] nichrome
- [C] graphite
- [D] iron

Answer Option [A]

Q. 16 **Which of the following are the ingredients of gun metal?**

- [A] Iron, Zinc, Titanium
- [B] Iron, tin
- [C] Iron, Brass, Tin
- [D] Copper, Tin

Answer Option [D]

Q. 17 **How many colours the sunlight spectrum has?**

- [A] Three
- [B] Seven
- [C] Four
- [D] Five

Answer Option [B]

Q. 18 **What is the wavelength of visible spectrum?**

- [A] 8500 - 9800 angstrom
- [B] 7800 - 8000 angstrom
- [C] 3900 - 7600 angstrom
- [D] 1300 - 3000 angstrom

Answer Option [C]

Q. 19 **Which of the following does not contain a coinage metal?**

- [A] Silver and Gold
- [B] Zinc and Gold
- [C] Copper and Silver
- [D] Copper and Gold

Answer Option [B]

Q. 20 **Which of the following is in liquid form at room temperature?**

- [A] Lithium
- [B] Sodium
- [C] Francium
- [D] Cerium

Answer Option [C]

Q. 21 **Heavy water is**

- [A] deuterium oxide
- [B] PH7
- [C] rain water
- [D] tritium oxide

Answer Option [A]

Q. 22 **Which radioactive pollutant has recently drawn to public, due to its occurrence in the building material?**

- [A] Thorium
- [B] Radium
- [C] Plutonium
- [D] Radan

Answer Option [A]

Q. 23 **Chemical formula for water is**

- [A]  $\text{NaAlO}_2$
- [B]  $\text{H}_2\text{O}$
- [C]  $\text{Al}_2\text{O}_3$
- [D]  $\text{CaSiO}_3$

Answer Option [B]

Q. 24 **One horse power is equal to**

- [A] 746 watts
- [B] 748 watts
- [C] 756 watts
- [D] 736 watts

Answer Option [A]

Q. 25 **Brass gets discoloured in air because of the presence of which of the following gases in air?**

- [A] Oxygen
- [B] Hydrogen sulphide
- [C] Carbon dioxide
- [D] Nitrogen

Answer Option [B]

Q. 26 **In an atomic explosion, enormous energy is released which is due to**

- [A] conversion of chemical energy into heat energy
- [B] conversion of mechanical energy into nuclear energy
- [C] conversion of mass into energy
- [D] conversion of neutrons into protons

Answer Option [C]

Q. 27 **How does common salt help in separating soap from the solution after saponification?**

- [A] By decreasing density of Soap
- [B] By decreasing solubility of Soap
- [C] By increasing density of Soap
- [D] By increasing solubility of Soap

Answer Option [B]

Q. 28 **What is laughing gas?**

- [A] Nitrous Oxide
- [B] Carbon monoxide
- [C] Sulphur dioxide
- [D] Hydrogen peroxide

Answer Option [A]

Q. 29 **Galvanised iron sheets have a coating of**

- [A] lead
- [B] chromium
- [C] zinc
- [D] tin

Answer Option [C]

Q. 30 **'Bar' is the unit of**

- [A] temperature
- [B] heat
- [C] atmospheric pressure
- [D] current

Answer Option [C]

Q. 31 **Mesons are found in**

- [A] Laser beam
- [B] X-rays
- [C] Gamma rays
- [D] Cosmic rays

Answer Option [D]

Q. 32 **Which of the following is not an isotope of hydrogen?**

- [A] Tritium
- [B] Deuterium
- [C] Protium
- [D] Yttrium

Answer Option [D]

**Explanation:** [http://en.wikipedia.org/wiki/Isotopes\\_of\\_hydrogen](http://en.wikipedia.org/wiki/Isotopes_of_hydrogen)

Q. 33 **Which of the following rays are more penetrating?**

- [A] Beta rays
- [B] Alpha rays
- [C] Gamma rays
- [D] X-rays

Answer Option [C]

Q. 34 **According to Avogadro's Hypothesis, the smallest particle of an element or a compound, that can exist independently, is called \_\_\_\_ .**

- [A] a molecule
- [B] a cation
- [C] an anion
- [D] an atom

Answer Option [A]

Q. 35 **The variety of coal in which the deposit contains recognisable traces of the original plant material is**

- [A] bitumen
- [B] anthracite
- [C] lignite
- [D] peat



Answer Option [D]

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Q. 36 **Tetraethyl lead is used as**

- [A] pain killer
- [B] fire extinguisher
- [C] mosquito repellent
- [D] petrol additive

Answer Option [D]

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Q. 37 **The inert gas which is substituted for nitrogen in the air used by deep sea divers for breathing, is**

- [A] Argon
- [B] Xenon
- [C] Helium
- [D] Krypton

Answer Option [C]

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Q. 38 **Which of the following is an element?**

- [A] Ruby
- [B] Sapphire
- [C] Emerald
- [D] Diamond

Answer Option [D]

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Q. 39 **Deep blue colour is imparted to glass by the presence of**

- [A] cupric oxide
- [B] nickel oxide
- [C] cobalt oxide
- [D] iron oxide

Answer Option [C]

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Q. 40 **The gases used in different types of welding would include**

- [A] oxygen and hydrogen
- [B] oxygen, hydrogen, acetylene and nitrogen
- [C] oxygen, acetylene and argon
- [D] oxygen and acetylene

Answer Option [D]

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Q. 41 **The most important ore of aluminium is**

- [A] galena
- [B] calamine
- [C] calcite
- [D] bauxite

Answer Option [D]

**Explanation:** Bauxite is an aluminium ore and is the main source of aluminium.

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Q. 42 **Optic fibres are mainly used for which of the following?**

- [A] Musical instruments
- [B] Food industry
- [C] Weaving
- [D] Communication

Answer Option [D]

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Q. 43 **Actinides are the elements with atomic numbers from**

- [A] 97 to 104
- [B] 101 to 115
- [C] 89 to 103
- [D] 36 from 43

Answer Option [C]

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Q. 44 **Production of chlorofluorocarbons (CFC) gas which is proposed to be banned in India, is used in which of the following domestic products?**

- [A] Television
- [B] Refrigerator
- [C] Tube light
- [D] Cooking gas

Answer Option [B]

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Q. 45 **Air is a/an**

- [A] compound
- [B] element

[C] electrolyte

[D] mixture

Answer Option [D]

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Q. 46 **Gypsum is added to cement clinker to**

[A] increase the tensile strength of cement

[B] decrease the rate of setting of cement

[C] facilitate the formation of colloidal gel

[D] bind the particles of calcium silicate

Answer Option [B]

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Q. 47 **The average salinity of sea water is**

[A] 3%

[B] 3.5%

[C] 2.5%

[D] 2%

Answer Option [B]

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Q. 48 **Detergents used for cleaning clothes and utensils contain?**

[A] bicarbonates

[B] bismuthates

[C] sulphonates

[D] nitrates

Answer Option [C]

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Q. 49 **One fathom is equal to**

[A] 6 feet

[B] 6 meters

[C] 60 feet

[D] 100 cm

Answer Option [A]

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Q. 50 **Epoxy resins are used as**

[A] detergents

[B] insecticides

[C] adhesives

[D] moth repellents

Answer Option [C]

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Q. 51 **The main constituents of pearls are**

[A] calcium oxide and ammonium chloride

[B] calcium carbonate and magnesium carbonate

[C] aragonite and conchiolin

[D] ammonium sulphate and sodium carbonate

Answer Option [B]

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Q. 52 **Which of the following metals remain in liquid for under normal conditions?**

[A] Radium

[B] Zinc

[C] Uranium

[D] Mercury

Answer Option [D]

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Q. 53 **What is the unit for measuring the amplitude of a sound?**

[A] Decibel

[B] Coulomb

[C] Hum

[D] Cycles

Answer Option [A]

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Q. 54 **In fireworks, the green flame is produced because of**

[A] sodium

[B] barium

[C] mercury

[D] potassium

Answer Option [B]

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Q. 55 **Soap is a mixture of sodium or potassium salts of**

[A] dicarboxylic acids

[B] monocarboxylic acids

[C] glycerol

[D] tricarboxylic acids

Answer Option [B]

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Q. 56 **Which is/are the important raw material(s) required in cement industry?**

[A] Gypsum and Clay

[B] Clay

[C] Limestone and Clay

[D] Limestone

Answer Option [C]

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Q. 57 **In an atomic nucleus, neutrons and protons are held together by**

[A] gravitational forces

[B] exchange forces

[C] coulombic forces

[D] magnetic forces

Answer Option [B]

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Q. 58 **The element common to all acids is**

[A] hydrogen

[B] carbon

[C] sulphur

[D] oxygen

Answer Option [A]

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Q. 59 **Knot is a unit of speed of which of the following?**

[A] Aeroplane

[B] Light waves

[C] Ship

[D] Sound waves

Answer Option [C]

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Q. 60 **The isotope of uranium capable of sustaining chain reaction is**

[A] U-235

[B] U-245

[C] U-239

[D] U-238

Answer Option [A]

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Q. 61 **Sodium metal is kept under**

[A] petrol

[B] alcohol

[C] water

[D] kerosene

Answer Option [D]

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Q. 62 **Atoms of an element differ from those of all other elements in**

[A] atomic number and electronic configuration

[B] number of neutrons and number of valence electrons

[C] atomic number and number of valence electrons

[D] number of neutrons and electronic configuration

Answer Option [A]

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Q. 63 **Among the various allotropes of carbon,**

[A] coke is the hardest, graphite is the softest

[B] diamond is the hardest, coke is the softest

[C] diamond is the hardest, graphite is the softest

[D] diamond is the hardest, lamp black is the softest

Answer Option [C]

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Q. 64 **kilohertz is a unit which measures**

[A] power used by a current of one ampere

[B] electromagnetic radio wave frequencies

[C] voltage

[D] electric resistance

Answer Option [B]

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Q. 65 **Which of the following is a protein?**

[A] Natural rubber

[B] Starch

[C] Cellulose

[D] None of these

Answer Option [A]

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Q. 66 **When an iron nail gets rusted, iron oxide is formed**

[A] without any change in the weight of the nail

[B] with decrease in the weight of the nail

[C] with increase in the weight of the nail

[D] without any change in colour or weight of the nail

Answer Option [C]

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Q. 67 **Nautical mile is a unit of distance used in**

[A] navigation

[B] road mile

[C] astronomy

[D] measuring the boundaries of a nation

Answer Option [A]

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Q. 68 **The chemical (ethyl mercaptan) added to the otherwise odourless LPG cooking gas for imparting a detectable smell to the gas is a compound of**

[A] bromine

[B] fluorine

[C] chlorine

[D] sulphur

Answer Option [D]

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Q. 69 **Which among the following is a positively charged particle emitted by a radioactive element?**

[A] Beta ray

[B] Alpha ray

[C] Cathode ray

[D] Gamma ray

Answer Option [B]

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Q. 70 **Which of the following was to be discovered first in the chromospheres of the sun?**

[A] Krypton

[B] Xenon

- [C] Neon
- [D] Helium

Answer Option [D]

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Q. 71 **Which of the gas is not known as green house gas?**

- [A] Methane
- [B] Nitrous oxide
- [C] Carbon dioxide
- [D] Hydrogen

Answer Option [D]

**Explanation:**

In order, the most abundant greenhouse gases in Earth's atmosphere are:

- \* water vapor
- \* carbon dioxide
- \* methane
- \* nitrous oxide
- \* ozone
- \* chlorofluorocarbons

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Q. 72 **Which of the following is commonly called a 'polyamide'?**

- [A] Terylene
- [B] Nylon
- [C] Rayon
- [D] Orlon

Answer Option [B]

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Q. 73 **The vast resources of unutilised natural gas can be used in the production of**

- [A] graphite
- [B] Synthetic petroleum
- [C] fertilisers
- [D] carbide

Answer Option [C]

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Q. 74 **The wavelength of X-rays is of the order of**

- [A] 10 micron
- [B] 1 angstrom
- [C] 1 cm
- [D] 1 m



Answer Option [B]

**Explanation:** 1 angstrom =  $1.0 \times 10^{-10}$  meters

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Q. 75 **Balloons are filled with**

- [A] nitrogen
- [B] helium
- [C] oxygen
- [D] argon

Answer Option [B]

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Q. 76 **Chlorophyll is a naturally occurring chelate compound in which central metal is**

- [A] copper
- [B] magnesium
- [C] iron
- [D] calcium

Answer Option [B]

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Q. 77 **'No two electrons in an atom can have the same set of four quantum numbers' is**

- [A] Newton's law
- [B] Bohr's law
- [C] Aufbau principle
- [D] Pauli's exclusion principle

Answer Option [D]

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Q. 78 **Marsh gas is**

- [A] nitrogen
- [B] ethane
- [C] methane
- [D] hydrogen

Answer Option [C]

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Q. 79 **In which of the following activities silicon carbide is used?**

- [A] Making cement and glass
- [B] Disinfecting water of ponds
- [C] cutting very hard substances

[D] Making casts for statues

Answer Option [C]

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Q. 80 **Which of the following is used as a lubricant?**

- [A] Graphite
- [B] Silica
- [C] Iron Oxide
- [D] Diamond

Answer Option [A]

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Q. 81 **Permanent hardness of water may be removed by the addition of**

- [A] sodium carbonate
- [B] alum
- [C] potassium permanganate
- [D] lime

Answer Option [A]

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Q. 82 **Paper is manufactured by**

- [A] Wood and resin
- [B] Wood, sodium and bleaching powder
- [C] Wood, calcium, hydrogen sulphite and resin
- [D] Wood and bleaching powder

Answer Option [C]

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Q. 83 **Rayon is chemically**

- [A] cellulose
- [B] pectin
- [C] glucose
- [D] amylase

Answer Option [A]

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Q. 84 **Washing soda is the common name for**

- [A] Sodium carbonate
- [B] Calcium bicarbonate
- [C] Sodium bicarbonate

[D] Calcium carbonate

Answer Option [A]

**Explanation:**

**What is the scientific name for washing soda?**

Sodium carbonate (also known as washing soda or soda ash),  $\text{Na}_2\text{CO}_3$  is a sodium salt of carbonic acid.

**Scientific name for baking soda?**

Sodium bicarbonate or sodium hydrogen carbonate is the chemical compound with the formula  $\text{NaHCO}_3$ . Sodium bicarbonate is a white solid that is crystalline but often appears as a fine powder. Since it has long been known and is widely used, the salt has many related names such as baking soda, bread soda, cooking soda, and bicarbonate of soda.

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Q. 85 **The two elements that are frequently used for making transistors are**

- [A] boron and aluminium
- [B] silicon and germanium
- [C] iridium and tungsten
- [D] niobium and columbium

Answer Option [B]

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Q. 86 **Very small time intervals are accurately measure by**

- [A] White dwarfs
- [B] Quartz clocks
- [C] Atomic clocks
- [D] Pulsars

Answer Option [C]

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Q. 87 **Potassium nitrate is used in**

- [A] medicine
- [B] fertiliser
- [C] salt
- [D] glass

Answer Option [B]

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Q. 88 **Kilowatt is a unit to measure**

- [A] work
- [B] power
- [C] electricity
- [D] current

Answer Option [B]

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Q. 89 **Light year is a measurement of**

- [A] speed of aeroplanes
- [B] speed of light
- [C] Stellar distances
- [D] speed of rockets

Answer Option [C]

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Q. 90 **Potassium Permanganate is used for purifying drinking water, because**

- [A] it is a sterilising agent
- [B] it dissolves the impurities of water
- [C] it is a reducing agent
- [D] it is an oxidising agent

Answer Option [D]

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Q. 91 **The hardest substance available on earth is**

- [A] Gold
- [B] Iron
- [C] Diamond
- [D] Platinum

Answer Option [C]

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Q. 92 **The gas usually filled in the electric bulb is**

- [A] nitrogen
- [B] hydrogen
- [C] carbon dioxide
- [D] oxygen

Answer Option [A]

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Q. 93 **Which of the following is used as a moderator in nuclear reactor?**

- [A] Thorium
- [B] Graphite
- [C] Radium
- [D] Ordinary water

Answer Option [B]

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Q. 94 **The group of metals Fe, Co, Ni may best called as**

- [A] transition metals
- [B] main group metals
- [C] alkali metals
- [D] rare metals

Answer Option [A]

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Q. 95 **Amalgams are**

- [A] highly coloured alloys
- [B] alloys which contain mercury as one of the contents
- [C] alloys which have great resistance to abrasion
- [D] alloys which contain carbon

Answer Option [B]

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Q. 96 **Bromine is a**

- [A] black solid
- [B] red liquid
- [C] colourless gas
- [D] highly inflammable gas

Answer Option [B]

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Q. 97 **Which type of fire extinguisher is used for petroleum fire?**

- [A] Powder type
- [B] Liquid type
- [C] Soda acid type
- [D] Foam type

Answer Option [A]

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Q. 98 **One Joule is equal to**

- [A]  $10^5$  ergs
- [B]  $10^3$  ergs
- [C]  $10^7$  ergs
- [D]  $10^{11}$  ergs

Answer Option [C]

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Q. 99 **Which metal pollute the air of a big city?**

- [A] Copper
- [B] Chromium
- [C] Lead
- [D] Cadmium

Answer Option [C]

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Q. 100 **What are the soaps?**

- [A] Salts of silicates
- [B] Mixture of glycerol and alcohols
- [C] Sodium or potassium salts of heavier fatty acids
- [D] Esters of heavy fatty acids

Answer Option [C]

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Q. 101 **Glass is made of the mixture of**

- [A] quartz and mica
- [B] sand and silicates
- [C] salt and quartz
- [D] sand and salt

Answer Option [B]

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Q. 102 **Which of the following is the lightest metal?**

- [A] Mercury
- [B] Lithium
- [C] Lead
- [D] Silver

Answer Option [B]

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Q. 103 **Which of the following is used in pencils?**

- [A] Graphite
- [B] Silicon
- [C] Charcoal
- [D] Phosphorous

Answer Option [A]

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Q. 104 **Carbon, diamond and graphite are together called**

- [A] allotropes
- [B] isomers
- [C] isomorphs
- [D] isotopes

Answer Option [A]

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Q. 105 **The property of a substance to absorb moisture from the air on exposure is called**

- [A] osmosis
- [B] deliquescence
- [C] efflorescence
- [D] desiccation

Answer Option [B]

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Q. 106 **A chronometer measures**

- [A] colour contrast
- [B] sound waves
- [C] time
- [D] water waves

Answer Option [C]

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Q. 107 **The major ingredient of leather is**

- [A] collagen
- [B] carbohydrate
- [C] polymer
- [D] nucleic acid

Answer Option [A]

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Q. 108 **Which of the following is used for removing air bubbles from glass during its manufacture?**

- [A] Arsenous oxide
- [B] Potassium carbonate
- [C] Soda ash
- [D] Feldspar

Answer Option [A]

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Q. 109 **Most soluble in water is**

- [A] camphor
- [B] sulphur
- [C] common salt
- [D] sugar

Answer Option [D]

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Q. 110 **Which of the following metals forms an amalgam with other metals?**

- [A] Tin
- [B] Mercury
- [C] Lead
- [D] Zinc

Answer Option [B]

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Q. 111 **Which of the following has a least penetrating power?**

- [A] All have same penetrating power
- [B] Beta Particles
- [C] Alpha particles
- [D] Gamma rays

Answer Option [C]

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Q. 112 **Permanent hardness of water can be removed by adding**

- [A] chlorine
- [B] washing soda
- [C] potassium permanganate
- [D] bleaching powder

Answer Option [B]

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Q. 113 **Reading of a barometer going down is an indication of**

- [A] snow
- [B] storm
- [C] intense heat
- [D] rainfall

Answer Option [D]

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Q. 114 **The dark lines in the solar spectrum are due to**

- [A] absorption of corresponding wavelengths by the outer layers of the sun
- [B] destructive interference between waves of certain definite wavelengths
- [C] absorption of corresponding wavelengths by the prism used in the photograph
- [D] absence of corresponding wavelengths from the light emitted by the core of the sun

Answer Option [A]

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Q. 115 **Bell metal is an alloy of**

- [A] nickel and copper
- [B] zinc and copper
- [C] brass and nickel
- [D] tin and copper

Answer Option [D]

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Q. 116 **Diamond is an allotropic form of**

- [A] germanium
- [B] carbon
- [C] silicon
- [D] sulphur

Answer Option [B]

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Q. 117 **Which of the following shows the masses of the three elementary particles in decreasing order?**

- [A] Leptons, Baryons, Mesons
- [B] Mesons, Baryons, Leptons
- [C] Baryons, Mesons, Leptons
- [D] Leptons, Mesons, Baryons

Answer Option [C]

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Q. 118 **Soda water contains**

- [A] carbonic acid
- [B] sulphuric acid
- [C] carbon dioxide
- [D] nitrous acid

Answer Option [C]

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Q. 119 **The age of most ancient geological formations is estimated by**

- [A] Ra - Si method
- [B] Potassium - argon method
- [C] C<sup>14</sup> method
- [D] Uranium - lead method

Answer Option [C]

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Q. 120 **Atoms are composed of**

- [A] electrons and protons
- [B] electrons only
- [C] protons only
- [D] electrons and nuclei

Answer Option [D]

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Q. 121 **One kilometre is equal to how many miles?**

- [A] 0.84
- [B] 0.5
- [C] 1.6
- [D] 0.62

Answer Option [D]

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Q. 122 **In vulcanisation, natural rubber is heated with**

- [A] Carbon
- [B] Silicon
- [C] Sulphur
- [D] Phosphorous

Answer Option [C]

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Q. 123 **Water is a good solvent of ionic salts because**

- [A] it has a high specific heat
- [B] it has no colour
- [C] it has a high dipole moment
- [D] it has a high boiling point

Answer Option [C]

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Q. 124 **Decibel is the unit for**

- [A] speed of light
- [B] radio wave frequency
- [C] intensity of sound
- [D] intensity of heat

Answer Option [C]

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