

General Science Mega Quiz for SSC Tier-1 (Solutions)

S1. Ans.(c)

Sol. The best example of changing into Electric energy from chemical energy is primary cells or batteries , the dry cell is also made up in this phenomenon.

S2. Ans.(a)

Sol. Soap is a combination of animal fat or plant oil and caustic soda, many vegetable fats including olive oil , palm kernel oil and coconut oil are also used in soap making.

S3. Ans.(b)

Sol. Glucose is a type of Hexose sugar.

S4. Ans.(a)

Sol. The size of the nucleus is measured in Fermi.

S5. Ans.(b)

Sol. A colloidal sol of sulphur is obtained by bubbling H₂S through the solution of bromine water, Sulphur dioxide etc.

S6. Ans.(b)

Sol. Alkali metals and alkaline earth metal form ionic bond while Al forms covalent bond with Cl , so, AlCl₃ molecule has covalent bond.

S7. Ans.(d)

Sol.

- Elements having atomic number greater than 82 are all radioactive. But , Zirconium has atomic number 40.
- So , it is not an radioactive element.

S8. Ans.(d)

Sol.

- Browning of pages in the old books is due to oxidation of cellulose.
- This phenomenon is known as Foxing.

S9. Ans.(c)

Sol. Oxygen, nitrogen , and hydrogen are colourless gases.while, chlorine is a greenish yellow coloured gas.



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S10. Ans.(a)

Sol. Phenol is also known as hydroxyl benzene.

S11. Ans.(b)

Sol. Philatelist collects postage stamps.

S12. Ans.(c)

Sol. Potatoes grow underground, but the part we eat is not a root. It is an underground stem called a tuber.

S13. Ans.(b)

Sol. Cactus, calotropis, aloe, etc. are desert plants . The root system of these plants become taller in search of water from the soil and their stems are small, adapted and underground sometimes.

S14. Ans.(b)

Sol. Gene mapping is the method used for determining the location of gene and relative distances between genes on a chromosome.

S15. Ans.(d)

Sol. The word "amphibian" is derived from the ancient Greek term amphibious, which means "both kinds of life". The term was initially used as a general adjective for animals that could live on land or in water. They are ectotherms or cold-blooded animals, means they are unable to regulate their own body temperature.

S16. Ans.(a)

Sol. Baryllium Sulphate is less soluble in water due to High inflammable energy.

S17. Ans.(c)

Sol. Radiocarbon dating is a radiometric dating method that uses the naturally occurring radioisotope carbon-14 (^{14}C) to estimate the age of carbon-bearing materials up to about 58,000 to 62,000 years.

S18. Ans.(b)

Sol. Cements harden because of hydration, chemical reactions that occur independently of the mixture's water content; they can harden even underwater or when constantly exposed to wet weather. The chemical reaction that result when the anhydrous cement powder is mixed with water produces hydrates that are not water-soluble.

S19. Ans.(b)

Sol. If a bond is broken, energy is absorbed and if a bond is formed, energy must have been released.

S20. Ans.(b)

Sol. Cane-sugar is carbohydrate and as this name implies, is composed of carbon, hydrogen and oxygen. It is a source of extracting sugar.

S21. Ans.(b)

Sol. Red blood cell (RBC) production (erythropoiesis) takes place in the red bone marrow in adults.

S22. Ans.(b)

Sol. The later formed primary xylem elements are called Metaxylem.

S23. Ans.(c)

Sol. The Phylum Chordata is made up of the most evolved animals. The characteristics of chordates include bilateral symmetry, a segmented body, a ventral heart. They does not have dorsal heart.

S24. Ans.(a)

Sol. Diploblastic cells are having a body derived from only two embryonic cell layers (ectoderm and endoderm, but no mesoderm), as in sponges and coelenterates.

S25. Ans.(a)

Sol. Order being a higher category, is the assemblage of families which exhibit a few similar characters

S26. Ans.(b)

Sol. Neutron is a neutral particle which has no electrical charge. It was discovered by Chadwick in 1932.

S27. Ans.(b)

Sol. Change of water into the vapour is called a physical change.

S28. Ans.(c)

Sol. Among non-metals, diamond is the hardest whereas, among the metals, platinum is the hardest.

S29. Ans.(a)

Sol. There are 2 types of street light bulbs are used by municipalities. They are sodium vapor and mercury vapor bulbs. The mercury vapor bulbs are usually a white ambient light and sodium on orange/yellow light.

S30. Ans.(d)

Sol. Mica is good conductor of heat and bad conductor of electricity so mica use in electrical industry.



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