

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

S1. Ans.(b)

Sol.

- Iodine test used to identify the presence of starch.
- Iodine solution dissolved in a aqueous solution of starch producing a purple black color.

S2. Ans.(c)

Sol.

- Pulses are a good source of proteins. They are often relatively poor in the essential amino acid named as Methionine.

S3. Ans.(a)

Sol.

- UN conference on Human Environment-1972 was an international conference held on 5-16 , June, 1972 in Stockholm.

S4. Ans.(b)

Sol.

- Deficiency of vitamin B3 or niacin cause the disease Pellagra.
- Pellagra disease inflamed the skin causes dementia.
- The main source of vitamin B3 are meat, fish , egg , vegetable , and nuts.

S5. Ans.(b)

Sol.

- Spiny dogfish is an aquatic animals belongs to family of shark's.

S6. Ans.(a)

Sol.

- Diabetes mellitus is a condition of high blood sugar level.
- Insulin secreted from Beta cells of pancreas which controls the blood sugar level.

S7. Ans.(c)

Sol.

- Molars are the three posterior most teeth present in jaw of 3-4 year's child.
- Molars help in chewing and mastigation of food.



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S8. Ans.(b)

Sol.

- Santalum is a root parasite.

S9. Ans.(c)

Sol.

- Sir Alexander Fleming is the discoverer of penicillin.

S10. Ans.(a)

Sol.

- Homeopathy term was coined by Samuel Hahnemann in 1796.
- Homeopathy is an alternate source of curing the disease without using allopathy.

S11. Ans.(c)

Sol.

- Electrons in the highest energy level of an atom are called Valence electrons or outermost shell electrons.
- Only these electrons participate in chemical bond formation.

S12. Ans.(b)

Sol.

- Atomic number of cobalt is greater than that of iron.

S13. Ans.(b)

Sol.

- Atoms of an element having same atomic number are known as Isotopes.

S14. Ans.(b)

Sol.

- Sewage treatment involves three stages.
- Sludge is a semi-solid residue produced in first step during treatment of sewage and waste water.

S15. Ans.(d)

Sol.

- Acetic acid is used for making vinegar. 5-10% dilute solution of acetic acid is known as vinegar.
- 100% pure acetic acid is known as Glacial acetic acid.

S16. Ans.(b)

Sol.

- Soda water was invented by Joseph Priestley.
- It is also known as carbonated water.
- CO₂ gas is also used in soda water.

S17. Ans.(c)

Sol.

- Conversion of water into steam is a physical change. Because, it is a physical change and it is a reversible process.
- So, Water can be obtained again from the steam.

S18. Ans.(d)

Sol.

- Tartaric acid is found in tamarind, grapes, and Unripened mangoes.
- While oxalic acid is present in spinach.

S19. Ans.(d)

Sol.

- When an acid reacts with base, then Water and salt are formed as product.
- This reaction is called as "Neutralisation Reaction".

S20. Ans.(b)

Sol.

- The material used in electric heater is Nichrome.
- Nichrome is a mixture of Nickel, Chromium, and iron.

S21. Ans.(b)

Sol. The SI unit of electric charge is Coulomb.

S22. Ans.(c)

Sol. When the bus is running, the whole body of the passenger is in the state of motion. When the bus stops suddenly, the lower part of the passenger's body which is in contact with the bus, comes to rest. But the passenger's upper portion remains in the state of motion due to the inertia of motion. This is the reason for the passenger to lean forward when the bus stops suddenly.

S23. Ans.(c)

Sol. If a boy is sitting in a train, which is moving at a constant velocity throws a ball straight up into the air, the ball will fall into his hand.

S24. Ans.(c)

Sol. A person is hurt on kicking a stone due to reaction. Here Newton's third law of motion is applied which states that every action has an equal and opposite reaction.

S25. Ans.(c)

Sol. For a body moving with non-uniform acceleration, the velocity-time graph is non-linear.

S26. Ans.(c)

Sol. A parachute descends slowly because it has a larger surface area and air resistance is more.

S27. Ans.(b)

Sol. Concave mirror is used as Shaving mirror.

S28. Ans.(c)

Sol. The spoon dropped by an astronaut in a satellite will continue to follow the motion of the satellite.

S29. Ans.(b)

Sol. The sensation of weightlessness in a spacecraft in an orbit is due to the acceleration in the orbit which is equal to the acceleration due to gravity outside.

S30. Ans.(c)

Sol. It is easier to carry two buckets of water in one hand each, than to carry only one in one hand because centre of gravity and centre of equilibrium fall within the feet.

