

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

S1. Ans.(a)

S2. Ans.(a)

S3. Ans.(a)

S4. Ans.(c)

S5. Ans.(d)

S6. Ans.(b)

S7. Ans.(d)

S8. Ans.(c)

S9. Ans.(d)

S10. Ans.(d)

S11. Ans.(a)

Sol.

- Velocity as the rate of change of position. The slope of a distance or position- time graph is velocity.
- Acceleration is the rate of change of velocity.
- The slope of a velocity- time graph is acceleration.

S12. Ans.(c)

Sol.

- Water has a very high specific heat capacity, that is, to raise the temperature of unit mass of water by 1 degree Celsius, a large amount of heat is required.
- Car radiator gets heated up by large temperature. Water can easily take up this heat without going heated up itself.

S13. Ans.(b)

Sol.

- When ice at 0 degree Celsius melts., it absorbs an equal amount of heat – 80 calories for each gram ice and it's temperature remains unchanged until it has completely melted.

S14. Ans.(c)

Sol.

- The layer of the atmosphere that reflects radio waves is the ionosphere.
- The ionosphere is defined as the layer of the earth's atmosphere that is ionized by solar and cosmic radiation.



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**S15. Ans.(b)**

**Sol.** The pen draws ink from the reservoir through a feed to the nib and deposits it on paper via a combination of gravity and capillary action.

**S16. Ans.(b)**

**Sol.** A hygrometer is a weather instrument used to measure the amount of humidity in the atmosphere.

**S17. Ans.(b)**

**Sol.** Cohesive force are the intermolecular forces. Which cause a tendency in liquids to resist separation. These attractive forces exist between molecules of the same substance.

**S18. Ans.(b)**

**Sol.** These colors are often observed as light passes through a triangular prism. Upon passage through the prism, the white light is separated into it's component color's.-red, orange, yellow, green, blue and violet. The separation of visible light into it's different colors is known as dispersion.

**S19. Ans.(d)**

**Sol.** One large hard boiled egg contains 77 calories. Eating one hard boiled egg provides 4 percent of your daily caloric needs based on a 2,000- calorie diet.

**S20. Ans.(c)**

**Sol.** The escape velocity from earth is about 11.186 km/s at the surface.

**S21. Ans.(d)**

**Sol.** First decrease than Increases, because moving from group 1 , group 1 elements is highly reactive in nature, moving from left to right the reactivity of elements decreases.

But , group 18 is highly reactive, and that's why firstly reactivity decreases and then increase.

**S22. Ans.(c)**

**Sol.**

- Force =  $m \times a$ .
- If the mass of a body is reduced to half with constant acceleration than , in equation put  $m= a/2$ ,
- By this we found that if mass becomes half then, we need to apply half force to move that body of mass  $m/2$  as compared to body of mass  $m$ .

**S23. Ans.(c)**

**Sol.**

- It was George Lemaitre (1927) who proposed a theory called Big Bang theory in the context of the origin of the universe.
- His theory was based on Albert Einstein's famous general theory of relativism.

**S24. Ans.(a)**

**Sol.** A Rectifier is an electronic device that converts an alternating current into a Direct current by using one or more P-N junction diodes.

**S25. Ans.(b)**

**Sol.**

- Jaw is a set of bones that holds your teeth , it consists of two main parts.
- The upper part is the maxilla. It doesn't move.
- The moveable lower part is called the Mandible.

**S26. Ans.(a)**

**Sol.** The most common Actinide is thorium and all actinides are radioactive and release energy upon radioactive decay.

**S27. Ans.(c)**

**Sol.** Betel vine has a clinging root.

**S28. Ans.(a)**

**Sol.**

- In CGS the unit of force is Dyne.
- In SI method the unit of force is called Newton.

**S29. Ans.(b)**

**Sol.** Santalum is a root parasite.

**S30. Ans.(d)**

**Sol.** The highest oxidation state shown by transition elements is eight and the element which shows +8 oxidation state are Ruthenium (Ru) and Os(osmium).



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