

General Science Mega Quiz for RRB NTPC (Solutions)

S1. Ans.(a)

Sol. The main respiratory surface in humans is the alveoli. Alveoli are tiny balloon like structures with very thin walls. They have numerous tiny thin walled blood vessels in direct contact with them. It is within the lungs.

S2. Ans.(a)

Sol. The skin, the lining of the mouth, the lining of blood vessels, lung alveoli and kidney tubules are all made of epithelial tissue. Epithelial tissue cells are tightly packed and form a continuous sheet.

S3. Ans.(b)

Sol. Before the object begins falling, it has gravitational potential energy which can be calculated by mgh , So the initial potential energy will equal the kinetic energy of the object right before it hits the ground. The potential energy has been converted into kinetic energy.

S4. Ans.(b)

Sol. During very intense exercise, your circulatory system cannot keep up with your muscles demand for oxygen. To maintain a steady supply of energy, muscles shift from aerobic metabolism, which requires oxygen, to anaerobic metabolism, which does not. Muscles can break down carbohydrates anaerobically to provide energy, resulting in a compound called pyruvate. When oxygen is available, pyruvate can be further broken down aerobically to provide more energy. But when sufficient oxygen is not available, pyruvate is converted into lactic acid.

S5. Ans.(b)

Sol. Washing soda is used for removing permanent hardness of water and as a cleaning agent for domestic purpose.

S6. Ans.(c)

Sol. In order to pasteurize milk, first, the milk is heated up to a longer time and then cooled suddenly within specified time. Pasteurization is a process invented the by French Scientist Louis Pasteur during the nineteenth century.

S7. Ans.(c)

Sol. Energy travels from Sun to Earth through Radiation.



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S8. Ans.(c)

Sol. The glass or steel which is used in thermos bottle is coated with a silver layer to keep drinks at the same temperature for some time.

S9. Ans.(c)

Sol. Adhesive forces are the attractive forces between unlike molecules.

S10. Ans.(b)

Sol. Centripetal force is a real force that counteracts the centrifugal force and prevents the object from “flying out,” keeping it moving instead with a uniform speed along a circular path.

S11. Ans.(d)

Sol. The marble cancer refers to the corrosion of building and statues made up of marbles by action of sulfuric acid and nitric acid. The slow corrosion (or eating up) of marble of a monument by acid rain is known as Marble cancer. The main cause of marble cancer is acid rain.

S12. Ans.(c)

Sol. The gas that reduces the capacity of the blood to carry oxygen is CARBON MONOXIDE. It gets deposited in the haemoglobin of Red Blood Cells (RBCs) and prevents proper oxygen carrying capacity.

S13. Ans.(d)

Sol. Ornithophily or bird pollination is the pollination of flowering plants by birds.

S14. Ans.(c)

Sol. The pupil is the opening in the center of the iris where light enters the eye. When looking at the eye, the pupil appears black. The iris opens and closes to control the amount of light entering the eye through the pupil.

S15. Ans.(d)

Sol. If the Distance-Time graph is a curve then it represents non uniform speed. The slope of distance – time graph represents its velocity.

S16. Ans.(d)

Sol. Classification of species is a reflection of their evolutionary relationships.

S17. Ans.(b)

Sol. Robert Hooke was a 17th century "natural philosopher" and an early scientist known for variety of observations of the natural world. His most notable discovery came in 1665, when he looked at a sliver of cork through a microscope lens and discovered cells.

S18. Ans.(a)

Sol. The skin, the lining of the mouth, the lining of blood vessels, lung alveoli and kidney tubules are all made of epithelial tissue. Epithelial tissue cells are tightly packed and form a continuous sheet.

S19. Ans.(b)

Sol. Before the object begins falling, it has gravitational potential energy which can be calculated by mgh , So the initial potential energy will equal the kinetic energy of the object right before it hits the ground. The potential energy has been converted into kinetic energy.

S20. Ans.(c)

Sol. The gas that reduces the capacity of the blood to carry oxygen is CARBON MONOXIDE. It gets deposited in the haemoglobin of Red Blood Cells (RBCs) and prevents proper oxygen carrying capacity.

S21. Ans.(b)

Sol. In botany, the petiole is the stalk that attaches the leaf blade to the stem. Outgrowths appearing on each side of the petiole in some species are called stipules. Leaves lacking a petiole are called sessile or epetiolate.

S22. Ans.(c)

Sol. The thin layer of living cells just inside the bark of a tree is called Xylem.

S23. Ans.(a)

Sol. Tears are a clear liquid secreted by the lacrimal glands (tear gland) found in the eyes of all land mammals (except for goats and rabbits).

S24. Ans.(b)

Sol. Anatomy is the branch of biology concerned with the study of the structure of organisms and their parts.

S25. Ans.(a)

Sol. Benjamin Franklin coined the term "battery" to describe the way a row of capacitors resembled a battery of canons.

S26. Ans.(d)

Sol. The pancreas, a pistol shaped organ, produces the enzymes amylase, lipase and protease and releases them into the small intestine when needed. The enzymes are used to fully digest the food molecules, so that they are small enough to diffuse into the bloodstream.

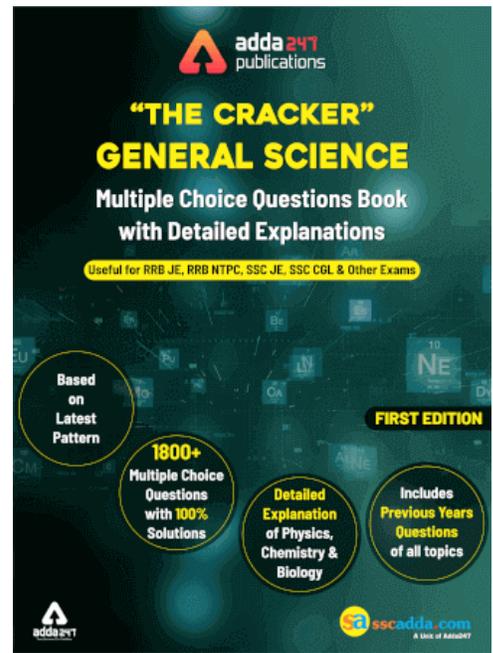
S27. Ans.(a)

Sol. Blue Vitriol is another name for Copper Sulphate.

S28. Ans.(c)

Sol. The smaller units of measuring mass are Milligram, Microgram, Pikogram and Femtogram.

1 Pikogram = 10^{-12} gram



S29. Ans.(d)

Sol. Law of Conservation of Energy means Energy can neither be created nor be destroyed, rather it can only be transformed from one form to another.

S30. Ans.(a)

Sol. It is clear that when the elevator is going upwards a person actually feels a little heavier than his usual weight and on the other hand when elevator accelerates downward then a person feels a little reduction than his usual weight.

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