

General Science Mega Quiz for RRB NTPC (Solutions)

S1. 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.

S2. 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.

S3. Ans.(a)

Sol. Measles is a highly contagious virus that lives in the nose and throat mucus of an infected person. It can spread to others through coughing and sneezing. Also, measles virus can live for up to two hours in an airspace where the infected person coughed or sneezed.

S4. Ans.(d)

Sol. Ethyl acetate is a colourless liquid at room temperature with a pleasant "fruity" smell.

S5. Ans.(a)

Sol. Propanal is an aldehyde that consists of ethane bearing a formyl substituent.

S6. Ans.(c)

Sol. The elements classified as metalloids are boron, silicon, germanium, arsenic, antimony, tellurium, and polonium.

S7. 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.

S8. Ans.(d)

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

S9. 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.



BILINGUAL

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S10. 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.

S11. Ans.(a)

Sol. The side mirrors of the car and the rear view mirror of a car are made up of convex mirrors. This is because the image formed by a convex mirror is diminished and erect image, thus it provides a larger field of view. A larger field of view helps the driver to know better about the traffic behind.

S12. Ans.(b)

Sol. When light travels from a denser medium to a rarer medium, it bends away from the normal, as illustrated to the left. This behavior follows from Snell's Law.

S13. Ans.(a)

Sol. The apparent depth of a coin inside water tab decreases due to Refraction of light.

S14. Ans.(d)

Sol. Refractive index has no units

S15. Ans.(c)

Sol. The colours which cannot be obtained by mixing of two or more colours are called primary colours. Red, yellow and blue are primary colours. Hence, Green is not a primary colour.

S16. Ans.(a)

Sol. Red light suffers the least amount of deviation and violet the most.

S17. Ans.(b)

Sol. Geostationary orbit, a circular orbit 35,785 km above Earth's Equator in which a satellite's orbital period is equal to Earth's rotation period of 23 hours and 56 minutes.

S18. Ans.(c)

Sol. It's the largest unit of distance. To measure distance of astronomical objects, astronomers usually measure the parallax angle. The parsec can be used readily with that data. So it makes calculations easy.

S19. Ans.(a)

Sol. Wilson's disease is a rare inherited disorder that causes copper to accumulate in your liver, brain and other vital organs. Most people with Wilson's disease are diagnosed between the ages of 5 and 35, but it can affect younger and older people

S20. Ans.(b)

Sol. It's time to look at all your bones — the adult human body has 206 of them!

S21. Ans.(b)

Sol. All prokaryotic organisms comes under Kingdom monera. Monera includes bacteria, mycoplasmas, cyanobacteria (blue green alga) and actinomycetes.

S22. Ans.(c)

Sol. Vitamin D plays an important role in protecting your bones, both by helping your body absorb calcium and by supporting muscles needed to avoid falls. Children need vitamin D to build strong bones, and adults need it to keep their bones strong and healthy. It is important for absorption of calcium.

S23. Ans.(b)

Sol. Under the Kingdom Animalia, cockroaches belong to the Phylum Arthropoda, Class Insecta, and Order Blattodea. The Order name is derived from the Greek blatta.

S24. Ans.(c)

Sol. The stamens are male reproductive structures that produce pollen. The carpels are female reproductive structures that produce egg cells and protect a developing baby plant, or embryo. The three main parts of a carpel are the stigma, style, and ovary. The stigma is where pollination occurs.

S25. Ans.(b)

Sol. Chemical formula for Sodium Chloride (common salt) is NaCl.

S26. Ans.(d)

Sol. Carbon di oxide contributes the maximum to the phenomena of global warming. The increase in atmospheric Carbon di oxide and other greenhouse gases has increased the amount of infrared radiation absorbed and re-emitted by these molecules in the atmosphere and thus increases temperature.

S27. Ans.(a)

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.

S28. Ans.(b)

Sol. The color of light is determined by its wavelength. Different colors have different wavelengths. The wavelength of red colour is largest and violet colour has shortest wavelength.

S29. Ans.(d)

Sol. Due to the refraction of light, the sun is visible to us a few minutes before sunrise and a few minutes after sunset.

S30. Ans.(a)

Sol. The concept of expanding universe is based on Doppler effect. It was named after Christian Doppler, who first came up with the idea in 1942. Edwin Hubble used the Doppler Effect to determine that universe is expanding. Hubble found that the light from distant galaxies was shifted towards lower frequencies, to the red end of the spectrum. This is known as a red Doppler shift or a red-shift.

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