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## FIRST MID TERM TEST - 2023 SCIENCE

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10 - STD
Time: 1 301

Marks: 50

Choose the correct answer.  $8 \times 1 = 8$ I One kilogram force equals to 1. b) 9.8 X 104N c) 9.8 X 104 dyne d) 980 dyne a) 9.8 dyne Power of a lens is -4D, then its focal length is 2. c) -0.25 m d) -2.5 m b) - 40 m a) 4 m The volume occupied by 4.4g of CO, at 3 S.T.P. 3. c) 0.24 litre d) 0.1 litre b) 2.24 litre a) 22.4 litre b) Zinc blende c) Bauxite ' d) Hematite Ores of Aluminium a) Galena 4. Glycolysis takes place in ..... 5. c) Chloroplast d) Ribosomes a) Mitochondriab) Cytoplasm The animals which give birth to young ones are 6. b) viviparous c) ovoviviparous d) all the above a) oviparous The disease caused by decrease in the number of thrombocytes 7. c) Laukopenia d) Thromboustopenia b) Leucocytosis a) Anemia Vomiting centre is located in 8. b) Stomach c) Cerebrum d) Hypothalamus a) Medulla oblongata Answer any six of the following. Question number 16 is compulsory. п Why does the sky appear in blue colour.  $4 \times 3 = 12$ 9. Write the different types of isotopes of Oxygen and its percentage abundance. 10. What is rust? Give the equation for formation of rust. 11. What are the factors affecting photosynthesis? 12. How is diastema formed in rabbit? 13. What is cohesion? 14. a) Nissil's granules. Forebrain Match the following. 15. b) Hypothalamus Peripheral Nervous system c) Cerebellum Cytone Hind brain d) Schwann cell 16. Calculate the velocity of a moving body of mass 5 kg whose linear momentum is 2.5 KgmS-1? Answer any four of the following. Question number 22 is compulsory. ш  $4 \times 4 = 16$ Differentiate the eye defects. Myopia and Hyper metropia. 17. Classify the following molecules based on their atomicity and fill in the table. Fluorine [(F<sub>2</sub>), Carbon di oxide (CO<sub>2</sub>), Glucose (C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>), Hydrogen iodide (HI), Phosphorous (P<sub>4</sub>), Ozone (O<sub>5</sub>). Molecule Di tomic Poly atomic Tri atomic Homo Hetero How does the light dependent reaction differ from the light independent reaction? What are the end product and reactants in each? Where does each reaction occur within the chloroplast? What is transpiration? Give the importance of transpiration. 20. a) Draw and label the parts of Neuron. b) Name the parts of the hind brain 21. 22. A is a silvery white metal. A combines with O, to form B at 800°C, the alloy of A is used in making the aircraft. Find A and B. Answer the following questions in detail. 2 X 7 = 14 IV a) Define Intertia. Give its classification with example. (5) 23. b) Define Newton's second law (2) (OR) a) Derive the relationship between Relative molecular mass and vapour density. (5) b) Calculate the molecular mass of CO2. (2) a) Explain the male reproductive system of rabbit with a labelled diagram. (5)

a) Write the functions of blood.(5) b) What is the importance of valves in the heart. (2)

FM 10 - அறிவியல் (EM)

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b) Write the dental formula of rabbit. (2) (OR)