## S MONTHLY TEST - 2024

## Standard - X

Time: 1.30 hrs SCIENCE Marks: 50 I. Choose the correct answer:- 7×1=7 1) Floating a graph for momentum on the Y axis and a time on x axis slope of momentum - time graph gives a) Impulsive force b) Acceleration c) Force d) Rate of force 2) Magnification of a convex lens is a) Positive b) Negative c) Either positive or negative d) zero 3) The volume occupied by 4.4.g of CO, at STP b) 2.24 litre c) 0.24 litre d) 0.1 litre a) 22.4 litre 4) Kreb's cycle takes place in a) Chloroplast \_\_\_\_\_b) Mitochondrial matrix d) Inner mitochondrial membrane c) Stomata 5) The brain of leech lies above the b) Buccal cavity c) Phraynx d) Crop 6) The wall of human heart is made of pan? a) Endocardium b) Epicardium c) Myocardium d) All of the above 7) Choose the correct statements from the following i) Matured mammalian RBC does not have nucleus. ii) Respiratory pigments are present in neutrophils. iii) Percentage of basophils is the lowest among the leukocytes iv) Thrombocytes increase in numbers during infection and inflammation. a) (ii) and (iv) only b) (i) and (iii) only d) (i), (ii) and (iii) only c) (i) and (iv) only Part - II II. Answer any five of the following. (Question number 15 compulsory) 5×2=10 8) Differentiate mass and weight. 9) State Rayleigh's law of scattering. 10) Write the different types of isotopes of Oxygen and its percentage abundance. 11) Draw and label the structure of oxysomes. 12) a) How many pairs of tests are present in leach? b) What does CNS stand for?

13) Why are the rings of cartilages found in trachea of the rabbit?

(2) X SCIENCE 14) a) Normal blood pressure is \_\_\_\_\_ b) Who is the colour of the blood red? (15) Find the percentage of nitrogen in ammonia. III. Answer any three of the following questions. (Question number 20 compulsory)  $3 \times 4 = 12$ 16) a) State Newton's second law b) While catching a cricket ball the field at lowest hands backwards. Why? 17) Differentiate: Aerobic and anaerobic respiration. 18) How deos locomotion takeplace in leach? (19) Enumerate the functions of blood. 20) An object is placed at a distance 20cm from a convex lens of focal length 10cm. Find the image distance and the nature of the image. IV. Answer all the questions:-Draw diagrams wherever necessary:-3×7=21 21) a) i) Deduce the equation of a force using Newton's Second Law of motion. ii) How does an astronaut float in a space shuttle? [or] i) List any five properties of light. ii) Draw a ray diagram to show the image formed by a convex lens and object is placed between F and 2F. 22) a) i) Give the salient features of "Modern Atomic theory"? ii) Calculate the gram molecular mass of H,O. [or] b) i) Give the applications of Avogadro's law. ii) Differentiate: atoms and molecules How does the light dependent reaction differ from the light independent reaction? What are the end products and reactance 的是四大大艺 in each. [or] What is transpiration? Give the importance of transpiration.

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