FIRST MID-TERM TEST - 2023

A

Standard X

Reg.No. ☐☐☐☐☐☐

SCIENCE

Time : 1.30 hrs

Marks : 50

Part - I

I. Choose the correct answer: 9 x 1 = 9

1. Inertia of a body depends on _____.
   a) weight of the object
   b) acceleration due to gravity of the planet
   c) mass of the object
   d) both (a) and (b)

2. Impulse is equals to _____.
   a) rate of change of momentum
   b) rate of force and time
   c) change of momentum
   d) rate of change of mass

3. Power of a lens is –4D, then its focal length is _____.
   a) 4 m
   b) –40 m
   c) –0.25 m
   d) –2.5 m

4. Mass of 1 mole of nitrogen atom is _____.
   a) 28 amu
   b) 14 amu
   c) 28 g
   d) 14 g

5. _____ group contains the member of halogen family.
   a) 17th
   b) 15th
   c) 18th
   d) 16th

6. The endarch condition is the characteristic feature of _____.
   a) root
   b) stem
   c) leaves
   d) flower

7. Krebs' cycle takes place in _____.
   a) chloroplast
   b) mitochondrial matrix
   c) stomata
   d) inner mitochondrial membrane

8. The animals which give birth to young ones are _____.
   a) oviparous
   b) viviparous
   c) ovoviviparous
   d) all the above

9. _____ is an important metal to form amalgam.
   a) Ag
   b) Hg
   c) Mg
   d) Al

Part - II

II. Answer any 4 questions. (Q.No.15 is compulsory)   4 x 2 = 8

10. Fill in the blanks :
    i) Glycolysis takes place in _____.
    ii) The waxy blood sucking habit of leech is known as _____.

11. Classify the types of force based on their classification.

12. What are the causes of Myopia?

13. Name the acid that renders Aluminium passive. Why?

14. what is respiratory quotient?

15. Calculate the gram molecular mass of
    i) H_2O ii) CO_2.

Part - III

III. Answer any 3 questions. (Q.No.20 is compulsory)   3 x 4 = 12

16. Differentiate Mass and Weight.

17. Write any four properties of light.

18. What is rust? Write the equation for the formation of rust.

19. Name the three basic tissue system in flowering plants.

20. i)   Draw and label the structure of oxysomes.
    ii) Write the overall reaction for photosynthesis.

Part - IV

IV. Answer in detail.   3 x 7 = 21

21. a)   State Newton's laws of motion.

(OR)

    b)   Explain the rules for obtaining images formed by convex lens with the help of X-ray diagram.

22. a)   i)   Define atomicity.
           ii) State the postulates of modern atomic theory.

(OR)

    b)   What is an alloy? What are the reasons for alloying?

23. a)   Differentiate
           i)   Monocot root and Dicot root
           ii) Aerobic and Anaerobic respiration.

(OR)

    b)   i)   How does leech respire?
           ii) List out the parasitic adaptations in leech.

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