Virudhunagar District

First Mid Term Test - 2023

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Standard 10

SCIENCE

Time: 1.30 Hours

PART - I

Answer all the questions

8×1=8

Marks: 50

Choose the most appropriate answer:

- 1) To Project the rockets which of the following principle(s) is/are required?
 - a) Newton's third law of motion
 - b) Newton's law of gravitation
 - c) Law of conservation of linear momentum
 - d) Both a and c
- Magnification of convex lens is
 - a) Positive
 - b) negative
 - c) either positive or negative
 - d) zero
- 3) The gram molecular mass of water is
 - a) 2g
- b) 16q
- c) 8q
- d) 18g

- 4) Chemical formula of rust is
 - a) FeO.xH₂O
- b) FeO₄. xH₂O
- c) $Fe_2O_3.xH_2O$
- d) FeO
- 5) Casparian strips are present in the of the root.
 - a) cortex
- b) pith
- c) pericycle
- d) endodermis

- 6) Dental formula for rabbit is

- d) $\frac{2023}{1023}$

- 7) 'Heart of Heart' is called
 - a) SA node
- b) AV node
- c) Purkinje fibres
- d) Bundle of His
- 8) The heart of fish possess chambers.
 - a) 3
- b) 2
- c) 4
- d) 5

PART - II

Answer any six questions: (Q16 is compulsory)

 $6 \times 2 = 12$

- 9) Differentiate mass and weight.
- 10) State Rayleigh's law of scattering.
- 11) Define Atomicity
- 12) A is a silvary white metal. A combines with O₂ to form B at 800°C, the alloy of A is used in making The aircraft. Find A and B.
- 13) What is photosynthesis and where in a cell does it occur? Kindly send me your study materials to padasalai.net@gmail.com

V10S www.Padasalai.Net www.CBSEtips.in Allergic condition 14) Match it AB blood group Inflammation O blood group Absence of antigen Absence of antibody Eosinophil 15) What is the importance of valves in the heart? Neutrophils 16) Calculate the number of moles in 27g of Al.

PART-III

Answer any four questions: (Q23 is compulsory)

 $4 \times 4 = 16$

- 17) What are the types of inertia? Give an example of each type.
- 18) List any five properties of light
- 19) Derive the relationship between Relative molecular mass and Vapour density
- 20) a) What is an amalgam? Given an example
 - b) Mention any two uses of copper.
- 21) a) Write short notes on mesophyll
 - b) Draw and lable the structure of oxysomes.
- 22) Explain the male reproductive system of rabbit with a labelled diagram
- 23) a) Calculate the velocity of a moving body of mass 5kg whose linear momentum is 2.5kgms⁻¹
 - b) A man of mass 100kg has a weight of at the surface of the Earth.

PART - IV

Answer the questions. Draw diagrams Wherever necessary

2x7 = 14

- 24) a) i) Explain the construction and working of a 'Compound Microscope'.
 - Draw a ray diagram to show the image formed by a convex lens when the object is placed between F and 2F.

(OR)

- Explain different methods of preventing corrosion. b) i)
 - ii) Give any three salient features of "Modern atomic theory"
- Differentiate Monocot root and Dicot root. 25) a) i)
 - ii) What is respiratory quotient?

(OR)

- b) i) What is transpiration? Give the importance of transpiration
 - ii) Enumerate any three functions of blood. Kindly send me your study materials to padasalai.net@gmail.com