

FIRST MID TERM TEST - JULY - 2019

STANDARD - X

SCIENCE

TIME: 1.30 hours

MARKS - 50

PART - I

I. Choose the best answer:

10 × 1 = 10

- In which of the following sport the turning of effect of force used.
a) swimming b) tennis c) cycling d) hockey
- Power of Lens is $-4D$ then its Focal Length.
a) 4m b) $-40m$ c) $-0.25m$ d) $-2.5m$
- Which of the following is a tri atomic molecule?
a) Glucose b) Helium c) Carbondioxide d) Hydrogen
- Mass of 1 mole Nitrogen atom is
a) 28 amu b) 14 amu c) 28g d) 14g
- _____ is a important metal to form amalgam
a) Ag b) Hg c) Mg d) Al
- The member of Halogen family group contains _____.
a) 14th b) 15th c) 18th d) 16th
- The endarch xylem condition is the characteristic feature of
a) root b) stem c) leaves d) flower
- The substance that produced by leech which does not allow the blood to coagulate
a) Hibirin b) Hormone c) Hirudin d) Protein
- The wall of human Heart is made of
a) Endocardium b) Epicardium
c) Myocardium d) All of the above
- Which is called as Perikaryan.
a) Axon b) Nissl's granules c) Cyton d) Dendrites

PART - II

II. Answer ANY TEN questions:

10 × 2 = 20

- Define inertia. Give its classification.
- Why a spanner with a long handle preferred to tighten screws in heavy vehicles?
- A door is pushed at a point whose distance from the hinges is 90 cm, with a force of 40 N. Calculate the moment of the force about the hinges.
- Draw a ray diagram to show the image formed by a convex lens when the object is placed between F and 2F.
- What is power of accomodation of eye?
- True or False. (If False (give the correct statements)
a) Molar mass of CO_2 is 42 g
b) Ionic radius increases across the period from left to right

17. Write the different types of isotopes of oxygen and its percentage abundance.
18. Give any two examples for hetero diatomic molecules.
19. Assertion : Magnesium is used to protect the steel from Rusting
Reason : Magnesium is more reactive than Iron
Ans:
 - a) A and R correct, R explains the A
 - b) A is correct, R is wrong
 - c) A and R are correct, R doesn't explain A
20. What is rust? Give the equation for the formation of rust.
21. Draw and Label the structure of Oxysomes.
22. What is Sanguivorous animals? Give one eg.
23. Write the dental formula for rabbit?
24. Name the heart valve associated with the major arteries leaving ventricles.
25. Which acts as a link between the nervous system and endocrine system?

PART - III

III. Answer ANY FOUR questions:

4 × 5 = 20

26. Classify neurons based on its structure.
27. Draw the structure of Dicot root and Label any 5 parts.
28. Metal A belongs to period 3 and group 13 A in red hot condition reacts with steam to form B. A with strong alkali form C. Find A, B, and C with reactions.
29. Calculate the number of water molecule present in one drop of water which weighs 0.18g.
30. State Newton's third law of motion with example?
31. List any five properties of light?

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