

Class : 10

Register  
NumberChennai Dist.  
1 0 0 0 6**FIRST MID TERM TEST -2022-23**

Time Allowed : 1.30 Hours]

**SCIENCE**

[Max. Marks : 50

**PART - I**

9x1= 9

**I. Choose the correct answer.**

- Impulse is equal to
  - rate of change of momentum
  - rate of force and time
  - change of momentum
  - rate of change of mass
- The eye defect 'Presbyopia' can be corrected by
  - Convex lens
  - Concave lens
  - Convex mirror
  - Bi focal lenses
- Which of the following is a triatomic molecule?
  - Glucose
  - Helium
  - Carbon dioxide
  - Hydrogen
- group contains the member of halogen family.
  - 17<sup>th</sup>
  - 15<sup>th</sup>
  - 18<sup>th</sup>
  - 16<sup>th</sup>
- is an important metal to form amalgam.
  - Ag
  - Hg
  - Mg
  - Al
- Which is formed during anaerobic respiration?
  - Carbohydrate
  - Ethyl alcohol
  - Acetyl Co A
  - Pyruvate
- The endarch condition is the characteristic feature of
  - root
  - stem
  - leaves
  - flower
- The body of leech has
  - 23 segments
  - 33 segments
  - 38 segments
  - 30 segments
- Heart of heart is called *The animal which give both two is called*
  - SA node
  - AV node
  - Purkinje fibres
  - Bundel of His

**PART - II**

Answer any four of the following questions. (Q.No.15 is compulsory)

4x2=8

- Classify the types of force based on their application.
- What are the causes of Myopia?
- State two conditions necessary for rusting of iron.

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13. Fill in the blanks:

- (i) Glycolysis takes place in -----.
- (ii) The waxy protective covering of a plant is called -----.

14. How is diastema formed in rabbit?

15. Calculate the molar mass of

- (i)  $H_2O$                       (ii)  $CO_2$

**PART - III**

Answer any three of the following. (Q.No.20 is compulsory)

3x4=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. Write the importance of transpiration.
20. (i) Draw and label the structure of oxysomes.
- (ii) Write the over all reaction for photosynthesis.

**PART - IV**

Note : Answer in detail.

3x7=21

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

(OR)

b) Explain the rules for obtaining images formed by a 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) (i) How does leech respire?

(ii) List out the parasitic adaptations in leech.

(OR)

b) Differentiate

(i) Monocot root and Dicot root.

(ii) Aerobic and anaerobic respiration.

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