

Class : 10Register
Number**FIRST MID TERM TEST -2023**

Time Allowed : 1.30 Hours]

SCIENCE

[Max. Marks : 50

PART - I

I. Choose the correct answer.

9x1=9

1. Impulse is equal to
 - (a) rate of change of momentum
 - (b) rate of force and time
 - (c) change of momentum
 - (d) rate of change of mass.
2. The eye defect '**Presbyopia**' can be corrected by
 - (a) Convex lens
 - (b) Concave lens
 - (c) Convex mirror
 - (d) Bi focal lenses
3. Which lens is used to correct astigmatism?
 - a. convex lens
 - b. Bifocal lens
 - c. Concave lens
 - d. Cylindrical lens
4. Atomicity of phosphorus is
 - a. 2
 - b. 4
 - c. 3
 - d. 1
5. ----- is an important metal to form amalgam.
 - (a) Ag
 - (b) Hg
 - (c) Mg
 - (d) Al
6. Kreb's cycle takes place in
 - a. Chloroplast
 - b. Mitochondrial matrix
 - c. Stomata
 - d. Inner mitochondrial membrane
7. The endarch condition is the characteristic feature of
 - (a) root
 - (b) stem
 - (c) leaves
 - (d) flower
8. The body of leech has
 - (a) 23 segments
 - (b) 33 segments
 - (c) 38 segments
 - (d) 30 segments
9. Heart of heart is called
 - (a) SA node
 - (b) AV node
 - (c) Purkinje fibres
 - (d) Bundel of His

PART - II

Answer any four of the following questions.

4x2=8

10. State Newton's second law.
11. What are the causes of Mycopia?
12. State two conditions necessary for rusting of iron.

CP/10/Sci/1

13. Fill in the blanks

- a. _____ is the longest period in the periodic table
 b. Chief ore of aluminium is _____.

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.

3x4=12

16. Differentiate mass and weight.
 17. Write any four properties of light.
 18. What are the applications of Avogadro's law?
 19. Write the importance of transpiration.
 20. How does locomotion take place in leech?

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.