Register Number : 0 1 0 3 0 1

FIRST MID TERM EXAMINATION - 2024
SCIENCE

Std: 10

Marks : 50

Time : 1.30 hr

8x1=8

I. Choose the correct answer :

1. Newton' III Law is applicable
   a) for a body is at rest
   b) for a body in motion
   c) both a and b
   d) only for bodies with equal

2. In a myopic eye, the image of the object is formed
   a) behind the retina
   b) on the retina
   c) infront of the retina
   d) on the blind spot

3. Which of the following is a triatomic molecule?
   a) glucose
   b) helium
   c) carbon dioxide
   d) hydrogen

4. in which family group 16 belongs to?
   a) carbon family
   b) nitrogen family
   c) chalcogen family
   d) halogens

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

6. the body of leech is metamerically divided into........segments.
   a)23
   b)33
   c)38
   d)30

7. which one of the following shows correct composition of blood
   a) plasma - blood + lymphocyte
   b) serum - blood + fibrinogen
   c) lymph - plasma + rbc + wbc
   d) blood - plasmas + rbc + wbc + platelets

8. Water which is absorbed by roots is transported to aercost parts of the plant through
   a) cartex
   b) epedermis
   c) xylem
   d) phbem

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II. Answer any six of the following question number 16 is compulsory.   6x2=12

9. State the principle of moments.

10. Give any two examples for hetero diatomic molecules.

11. State two condition necessary for rusting of iron.

12. What are the factors affecting photosynthesis?

13. Write the dental formula of rabbit?

14. Draw a ray diagram to show the image formed by a convex lens when the object is placed between F and 2F.

15. What is refraction of light?

16. Write the reaction for photosynthesis?

III. Answer any 4 of the following question number 22 is compulsory.   4x4=16

17. State and prove the law of conservation of linear momentum.

18. Differentiate convex lens and concave lens.

19. Give the salient features of "Modern atomic theory".

20. a. what is rust? Give the equation for formation of rust.

     b. name the acid that renders aluminium passive why?

21. a. write a short note on mesophyll.

     b. what is respiratory quotient*(R Q)

22. Give the importance of transpiration.

IV. Answer all the question   2x7=14

23. a. List any five properties of light.

     b. what are the cause of "Myopia"?   (or)

     a. Define: atomicity

     b. Explain the male reproductive system of rabbit with a labeled diagram

24. a. differentiation the aerobic and anaerobic respiration.

     b. differentiate the monocot root and Dicot root.   (or)

     a. Enumerate the functions of blood.

     b. Name the parts of the hind brain.

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