

Class : 10

Register
Number

UNIT TEST - 1, JULY - 2023

Time Allowed : 1.30 Hours]

SCIENCE

[Max. Marks : 50

PART - I

I. Choose the best answer.

9x1= 9

- One kilogram force equals to
 - 9.8 dyne
 - $9.8 \times 10^4 \text{ N}$
 - $98 \times 10^4 \text{ dyne}$
 - 980 dyne
- The eye defect 'Presbyopia' can be corrected by
 - Convex lens
 - Concave lens
 - Convex mirror
 - Bi focal lenses
- The gram molecular mass of Oxygen molecule is
 - 16 g
 - 18 g
 - 32 g
 - 17 g
- In the aluminio thermic process, the role of Al is
 - Oxidizing agent
 - Reducing agent
 - Hydrogenating agent
 - Sulphurising agent
- Which is formed during anaerobic respiration?
 - Carbohydrate
 - Ethyl alcohol
 - Acetyl CoA
 - Pyruvate
- The endarch condition is the characteristic feature of
 - root
 - stem
 - leaves
 - flower
- The brain of leech lies above the
 - Mouth
 - Buccal Cavity
 - Pharynx
 - Crop
- Mammals are ----- animals.
 - Cold blooded
 - Warm blooded
 - Poikilothermic
 - All the above
- The wall of human heart is made of
 - Endocardium
 - Epicardium
 - Myocardium
 - All of the above

PART - II

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

4x2=8

- State the law of conservation of linear momentum.
- What are the causes of Myopia?
- Write the different types of Isotopes of Oxygen and its percentage of abundance.
- Draw and label the structure of Oxygomes.
- How is diastema formed in rabbit?

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15. What is rust? Give the equation for formation of rust.

PART - III

3x4=12

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

16. a) Write any two differences between convex lens and concave lens.
 b) State Rayleigh's Scattering law.
17. Write any four postulates of modern atomic theory.
18. Differentiate Monocot root and Dicot root.
19. Enumerate the functions of blood.
20. Two bodies have a mass ratio of 3:4. The force applied on the bigger mass produces an acceleration of 12 ms^{-2} . What could be the acceleration of the other body, if the same force acts on it.

PART - IV

3x7=21

Note : Answer in detail.

21. a) i) Match:

- | I | - | II |
|---|---|------------------------------|
| a) Newton's I law | - | Propulsion of a rocket |
| b) Newton's II law | - | Stable equilibrium of a body |
| c) Newton's III law | - | Law of force |
| d) Law of Conservation of linear momentum | - | Flying nature of bird. |

ii) Describe rocket propulsion.

(OR)

- b) i) Write any five properties of light.
 ii) Why does the sky appear in blue colour?

22. a) Derive the relationship between Relative molecular mass and Vapour density.

(OR)

- b) i) Write the physical properties of metals.
 ii) State two conditions necessary for rusting of iron.

23. a) List out the parasitic adaptations in Leech.

(OR)

b) What is transpiration? Give the importance of transpiration.

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