

FMM

## FIRST MID TERM TEST - 2024

10 - Std

SCIENCE

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Time : 1.30 Hrs.

MARKS : 50

**KRISHNAGIRI****I Choose the correct answer.**

8 X 1 = 8

- Inertia of a body depends on
  - weight of the object
  - acceleration due to gravity of the planet
  - mass of the object
  - both a and b
- A man of mass 100 kg has a weight of ..... at the surface of the Earth.
  - 980 kg
  - 480 N
  - 980 N
  - 480kg
- Mass of 1 mole of Nitrogen atom is
  - 14g
  - 2.24 litre
  - 14 amu
  - 22.4 litre
- The basis of modern periodic law is .....
  - atomic number
  - atomic mass
  - isotopic mass
  - number of neutrons
- The eye defect 'Presbyopia' can be corrected by
  - Convex lens
  - Concave lens
  - Convex mirror
  - Bi focal lenses
- Glycolysis takes place in .....
  - Cytoplasm
  - Mitochondria
  - Chloroplast
  - Golgi organs
- The body of leach has
  - 23 segments
  - 33 segments
  - 38 segments
  - 30 segments
- Leukopenia means
  - Decrease in number of leukocytes (WBC)
  - Increase in number of leukocytes (WBC)
  - Increase in number of platelets (RBC)
  - Decrease in number of platelets (RBC)

**II Answer any six questions. Q.No. 16 is compulsory.**

6 X 2 = 12

- Differentiate mass and weight.
- Why does the sky appear in blue colour?

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11. Define : Atomicity.
12. True or false, (if false correct the statement)
  - i) Ionic radius increase across the period from left to right.
  - ii) Nobel gases are Diatomic.
13. Write the dental formula of rabbit.
14. What is respiratory quotient?
15. Match the following.
 

a) AB blood group	-	Allergic condition
b) O blood group	-	Inflammation
c) Eosinophil	-	Absence of antigen
d) Neutrophils	-	Absence of antibody
16. Draw a ray diagram to show the image formed by a convex lens when the object is placed 2F.

**III Answer any four questions. Question No. 22 is compulsory. 4 X 4 = 16**

17. Define inertia. Give its classification.
18. Differentiate "Myopia and Hypermetropia".
19. Write the applications of Avogadro's law.
20. Enumerate the functions of blood.
21. Differentiate Aerobic and Anaerobic respiration.
22. a) Calculate the number of moles in  $1.51 \times 10^{23}$  molecules of  $\text{NH}_4\text{Cl}$ .  
b) Calculate the molecular mass of  $\text{CO}_2$ .

**IV Answer all the questions.**

2 X 7 = 14

23. a) List any five properties of light.  
b) Define linear momentum. **(OR)**  
a) Give the salient features of "Morden atomic theory".  
b) Define : Amalgam.
24. a) List out the parasitic adaptations in leech.  
b) What is cohesion? **(OR)**  
a) Write a short note on mesophyll.  
b) Draw and label the structure of oxysomes.  
c) The heart of fishes have ..... chambers.