

**KOMARASAMY GOUNDER MAT.HR.SEC.SCHOOL – KURUMANDUR****QUARTERLY PORTION RETEST – OCT – 2023****X – STANDARD – C****TIME : 1.30 HOURS****SCIENCE****MARKS : 50****PART – A****I.CHOOSE THE CORRECT ANSWER :****10 X 1 = 10**

1. Plotting a graph for momentum on the X-axis and time on Y-axis. The slope of the momentum-time graph gives:
  - a) Impulsive force
  - b) Acceleration
  - c) Force
  - d) Rate of force
2. Magnification of a convex lens is:
  - a) Positive
  - b) negative
  - c) either positive or negative
  - d) zero
3. Temperature is the average \_\_\_\_ of the molecules of a substance?
  - a) the difference in K.E and P.E.
  - b) the sum of P.E and K.E.
  - c) the difference in T.E and P.E.
  - d) the difference in K.E and T.E.
4. SI unit of resistance is \_\_\_\_\_.
  - a) mho
  - b) joule
  - c) ohm
  - d) ohmmeter.
5. Which of the following is a triatomic molecule?
  - a) Glucose
  - b) Helium
  - c) Carbon dioxide
  - d) Hydrogen
6. The region of the chromosome where the spindle fibres get attached during cell division \_\_\_\_\_.
  - a) Chromomere
  - b) Centrosome
  - c) Centromere
  - d) Chromonema.
7. Syngamy results in the formation of \_\_\_\_\_.
  - a) Zoospores
  - b) Conidia
  - c) Zygote
  - d) Chlamydo spores.
8. The hormone which has positive effect on apical dominance is:
  - a) Cytokinin
  - b) Auxin
  - c) Gibberellin
  - d) Ethylene
9. Bipolar neurons are found in \_\_\_\_\_.
  - a) retina of eye
  - b) cerebral cortex
  - c) embryo
  - d) respiratory epithelium
10. A patient with blood group 0 was injured in an accident and has blood loss. Which blood group the doctor should effectively use for transfusion in this condition?
  - a) 0 group
  - b) AB group
  - c) A or B group
  - d) all blood group

**PART – B****II.ANSWER ANY “5” OF THE FOLLOWING :****5 X 2 = 10****QUESTION NUMBER “13” IS COMPULSORY.**

11. State two conditions necessary for rusting of iron.
12. The aquatic animals live more in cold region Why?
13. Calculate the current and the resistance of a 100 W, 200 V electric bulb in an electric circuit.
14. State Boyle's law.
15. Write a short note on mesophyll.
16. How is diastema formed in rabbit?
17. Why is the colour of the blood-red?

**PART - C**

**III.ANSWER ANY "4" OF THE FOLLOWING :**

**4 X 4 = 16**

**QUESTION NUMBER "23" IS COMPULSORY.**

18. List any Four properties of light.
19. Metal A belongs to period 3 and group 13. A in red hot condition reacts with steam to form B. A with strong alkali forms C. Find A, B and C with reactions.
20. write any four parasitic adaptation of leech
21. What are the difference between dicot root and monocot root.
22. Why did Mendel select pea plant for his experiments?
23. Keeping the temperature as constant, gas is compressed four times of its initial pressure. The volume of gas in the container changing from 20 cc ( $V_1$  cc) to  $V_2$  cc. Find the final volume  $V_2$ .

**PART - D**

**IV.ANSWER THE FOLLOWING :**

**2 X 7 = 14**

24. a) What are the types of inertia? Give an example for each type.
- b) Differentiate the eye defects: Myopia and Hypermetropia?
- Or
- Give the salient features of 'Modern atomic theory'.
25. a) With a neat labelled diagram describe the parts of a typical angiosperms ovule.
- b) Why the menstrual cycle does not take place before puberty and during pregnancy?
- Or
- a) What is transpiration? Give the importance of transpiration.
- b) Write any three the functions of blood.