

## MOUNT CARMEL MATRIC . HR.SEC. SCHOOL-KALLAKURICHI

SEPTEMBER MONTHLY TEST -2021

CLASS:10

TIME:1.30Hrs

SUBJECT :SCIENCE

MARKS :50

I. CHOOSE THE BEST ANSWER

8x1=8

1. Which of the following is correct?

- a) Rate of change of charge is electrical power. b) Rate of change of charge is current.  
c) Rate of change of energy is current. d) Rate of change of current is charge.

2. SI unit of resistance is

- a) mho b) joule c) ohm d) ohm meter

3. Ohm's law states the relationship between

- a)  $V=IR$  b)  $V=I/R$  c)  $R=V$  d)  $V=R/I$

4. The SI unit for electric current is the a) coulomb b) ampere c) volt d) volt

5. Casparian strips are present in the \_\_\_\_\_ of the root.

- a) cortex b) pith c) pericycle d) endodermis

6. Which is formed during anaerobic respiration

- a) Carbohydrate b) Ethyl alcohol c) Acetyl CoA d) Pyruvate

7. In leech locomotion is performed by

- a) Anterior sucker b) Parapodia c) Setae d) Contraction and relaxation of muscles

8. Mammals are \_\_\_\_\_ animals.

- a) Cold blooded b) Warm blooded c) Poikilothermic d) All the above

II ANSWER THE FOLLOWING QUESTIONS (any 6 )

6x2=12

9. Define electric current

10. Define ohm's law

11. Define ampere

12. Draw and label the structure of oxysomes

13. Name the three basic tissues system in flowering plants

14. What is respiratory quotient?

15. Give the common name of the Hirudinaria granulosa

III ANSWER THE FOLLOWING QUESTIONS (any 4 )

4x4=16

16. Define electric potential and potential difference

17. Distinguish between the resistivity and conductivity of a conductor.

18. List out the parasitic adaptations in leech.

19. Write a short note on mesophyll.

20. What is photosynthesis and where in a cell does it occur

IV ANSWER THE FOLLOWING QUESTIONS

2x7=14

21.. i) A charge of 12 coulomb flows through a bulb in 5 second. What is the current through the bulb?

ii) The work done in moving a charge of 10 C across two points in a circuit is 100 J. What is the potential difference between the points?

(OR)

write short note on electrical components symbols parts and their uses

22. Differentiate the following a) Monocot root and Dicot root b) Aerobic and Anaerobic respiration

(OR)

How does locomotion take place in leech?

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