

Mount Carmel mission mat. Hr. Sec. School
Monthly Examination

CLASS:10

SCIENCE

TIME:1.30Hrs

MARKS:50

I CHOOSE CORRECT ANSWER

8x1=8

1. Kreb's cycle takes place in
a) chloroplast b) mitochondrial matrix c) stomata d) inner mitochondrial membrane
2. _____ is ATP factory of the cell
a) Mitochondria b) cytoplasm c) chloroplast d) vacuole
3. Which one is referred as "Master Gland"?
a) Pineal gland b) Pituitary gland c) Thyroid gland d) Adrenal gland
4. Which one of the following hormone auxin is secreted by plants naturally?
a. IAA b) PAN C) 2,4 D d) IAN
5. Kilowatt hour is the unit of
a) resistivity b) conductivity c) electrical energy d) electrical power
6. 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.
7. Unit of radioactivity is _____
a. roentgen b. curie c. becquerel d. all the above
8. _____ aprons are used to protect us from gamma radiations
a. Lead oxide b. Iron c. Lead d. Aluminium

II ANSWER THE FOLLOWING QUESTIONS (any 6)

6x2=12

9. Define respiratory quotient ?
10. Write a short note on photosynthesis
11. Write a short note on mesophyll
12. What are chemical messengers?
13. Define the unit of current
14. State Ohm's law
15. Define electric potential and potential difference
16. Define one roentgen

III ANSWER THE FOLLOWING QUESTIONS (any four)

4x4=16

17. What is photosynthesis and where in a cell does it occur?
18. Why should light dependent reaction occur before the light independent reaction?
19. Write the difference between endocrine and exocrine gland
20. Where are the estrogens produced? what is the role of estrogens in the human body?
21. Distinguish between the resistivity and conductivity of a conductor.
22. Write features of natural and artificial radioactivity

IV ANSWER THE FOLLOWING QUESTION

2x7=14

23. Differentiate the following
a) Monocot root and Dicot b) anaerobic respiration and aerobic respiration (OR)
what are the conditions which occur due to lack of and insulin? How are the conditions different from another
24. Compare the properties of alpha, beta and gamma radiations (OR)
a) State Soddy and Fajan's displacement law. b) Which instrument is used to measure the electric current? How should it be connected in a circuit? c) A charge of 12 coulomb flows through a bulb in 5 second. What is the current through the bulb?

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