



KAMALAMMAL MATRIC. HR. SEC. SCHOOL

Subject : BIO-BOTANY

Half Portion

Max. Marks : 35

Class : XI STD

Time : 1.15 Hrs

I. Choose the correct answer:

8 x 1 = 8

1. Which of the following is a incorrect pair? _____.
 - a) Raceme – mustard
 - b) Spike – Achyranthus
 - c) Compound umbel – onion
 - d) Spadix – cocos
2. Flowers are zygomorphic in
 - a) Ceropegia
 - b) Therefia
 - c) Datura
 - d) Solanum
3. The two subunits of ribosomes remain united at critical ion level of
 - a) Magnesium
 - b) Calcium
 - c) Sodium
 - d) Ferrous
4. The period between is called _____.
 - a) Duplication
 - b) Growth phase
 - c) Cell cycle
 - d) Interphase
5. Choose the wrong statement
 1. Lipids are not soluble in polar solvents
 2. Lipids are hydrophobic
 3. Lipids do not dissolve in ether
 4. Waxes are Lipid derivatives
 - a) 1 and 2
 - b) 3 and 4
 - c) 1, 3, 4
 - d) 4 only
6. Identify the correctly matched pair
 - a) Acfinomyceles – Late blight
 - b) Mycoplasma – Lmypy jaw
 - c) Bacteria – Crown gall
 - d) Fungi – Sandal spike
7. Assertion (A) : Angiosperms and Gymnosperms show secondary growth
Reason (R) :Cambium is present in Angiosperms and Gymnosperms
 - a) A and R are wrong
 - b) A is right R is wrong
 - c) A and R are right but does not explain A
 - d) A and R are right R explain A
8. Unifoliate leaf is found in _____.
 - a) Pea
 - b) Citrus
 - c) Royal palm
 - d) Oil palm

II. Answer any four of the following Questions:

4 x 2 = 8

9. Write the distinguishing feature of monera.

10. What are pyrenoids?
11. What is coenanthium?
12. Where will you place the plants which contain two cotyledon with CUP shaped thalamus?
13. What are Tonoplast?
14. What is Mitogen?

III. Answer any three of the following Questions:

3 x 3 = 9

15. What are polypeptides?
16. Draw the Ultrastructure of plant cell.
17. Mention any three functions of seeds.
18. Do you agree with the statement 'Bryophytes need water for fertilization'? Justify your answer.
19. Tabulate the difference between anabolism and catabolism.

IV. Answer the following Questions:

2 x 5 = 10

20. Differentiate Gram positive and Gram negative bacteria.

(OR)

Give the floral character of *Clitoria ternatea*.

21. Differentiate between plant cell and animal cell.

(OR)

What is the significance of meiosis?

~~~ Best of Luck ~~~

---

**K. Parthipan, M.Sc., B.Ed.,**  
**PG Assistant in Botany,**  
**Kamalammal Matric. Hr. Sec. School,**  
**Thanipadi.**