



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. Agar – Agar is obtain from____

- a) Gracillaria b) Laminaria c) Ulva d) Ascophyllum

2. Choose the correct statement: In S phase of the cell cycle.

- a) Amount of DNA doubles in each cell
b) Amount of DNA remains same in each cell
a) Chromosome number is increased
b) d) Amount of DNA is reduced to half in each cell

3. Match the following:

A

B

1. Isomerous

i) Annona

2. Aisomerous

ii) Hibiscus

3. Bimerous

iii) Allium

4. Trimerous

iv) Ixora

a) 1 (ii) 2 (i) 3(iv) 4(iii)

b) 1 (ii) 2 (iv) 3 (i) 4 (iii)

c) 1 (iii) 2 (iv) 3 (i) 4 (ii)

d) 1 (ii) 2 (i) 3 (iii) 4 (iv)

4. Find out the mismatched pair:

- a) Terminal bud - Present at the apex of the main stem and branches
b) Lateral bud - Occur in the axil of the leaves
c) Accessory bud - An extra bud on either side the axillary bud
d) Adventitious bud - formed at nodes of stem

5. Find out wrong statement:

- a) Virion is an infact infective virus particle
b) Viroid is a circular molecule of ssRNA with a capsid
c) Virusoids are the small circular RNAs which are similar to viroids
d) Prions are proteniaceous infectious particles

6. Find out the correct statements:

1. Pinocytosis - Solid particles are engulfed by membrane
 2. Phagocytosis - Fluid droplets are engulfed by membrane
- a) 1 is correct, 2 is wrong b) 2 is correct, 1 is wrong
c) both 1 and 2 are wrong d) both 1 and 2 are correct

7. Write the correct answer:

Assertion (A) : Monosaccharides are relatively small molecules constituting single sugar unit.

Reason (R) : It is a six carbon molecule.

- a) A and R is correct b) A and R is wrong
c) A is correct but R is wrong d) A is wrong but R is correct

8. Stigma appearing like a head _____.

- a) Lateral style b) Discoid c) Capitate d) Globose

II. Answer any four of the following Questions:

4 x 2 = 8

9. Different between Anabolism and Calabolism.

10. What is Haplodiplontic life cycle?

11. Define pulvinus.

12. What is cladistic?

13. What is Karyokinesis?

14. Write any two properties of Enzyme.

III. Answer any three of the following Questions: Q.No. 18 which is compulsory:

3 x 3 = 9

15. Different between Taxonomy and systematic.

16. Write the physical properties of protoplasm.

17. Write about classification of enzyme.

18. Draw diagram and label the parts of T₄ bacteria phage.

19. Mentions any three functions of seeds.

IV. Answer the following Questions:

2 x 5 = 10

20. Explain tap root modifications.

(OR)

Explain bacterial transformation.

(OR)

Griffith experiment.

21.Explain different types of fleshy fruit with suitable example.

(OR)

Explain types of stele.

~~~ Best of Luck ~~~

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