

FULL PORTION EXAMINATION -BIO-BOTANY CLASS -12 MARKS -35**PART-A CHOOSE THE BEST ANSWER****8*1=8**

1. In majority of plants pollen is liberated at.....

a). 1 celled stage b). 2 celled stage c). 3 celled stage d). 4 celled stage

2. Gene which suppresses other genes activity but does not lie on the same locus is called as...

a). Epistatic b). Supplement only c). Hypostatic d). Codominant

3. Which one of the following palindromic base sequence in DNA can be easily cut at about the middle by some particular restriction enzymes?

a). 5' CGTTCG 3' 3' ATCGTA 5' b). 5' GATATG 3' 3' CTAATA 5' c). 5' GAATTC 3' 3' CTTAAG 5'
d). 5' CACGTA 3' 3' CTCAGT 5'

4. Tamarindus indica is Indigenous to

a). Tropical African region b). South India, Sri Lanka c). South America, Greece d). India alone

5. The quickest method of plant breeding is.....

a). Introduction b). Selection c). Hybridization d). Mutation breeding

6. Forestry Extension centres provide technical support for Tree growing in rural areas in Tamil Nadu a). 32 b). 34 c). 12 d). 36

7. Ten percent law was proposed by....

a). S.A. Forbes b). Vernadsky c). Lindeman d). Charles Elton

8. During protoplast culture, Protoplast viability is tested with.... before the culture.

a). Fluorescein Diphosphate b). Fluorescein Diacetate c). PEG d). PEG with Ca⁺⁺

PART -B ANSWER ANY FOUR OF THE FOLLOWING QUESTIONS**4*2=8**

9. What are called Endothelium

10. Atavism

11. Uses of genetic mapping

12. Define Bioleaching

13. Write short note on Cryoprotectans

14. Acclimatization

PART -C ANSWER ANY THREE OF THE FOLLOWING QUESTIONS. NOTE. QSTN. NO .19. IS COMPULSORY 3*3=9

15. How Trichoderma act as a Bio-control agent

16. Ten percent law

18. Disadvantages of Bt. cotton

19.Functions of Tapetum

PART -D ANSWER ALL THE QUESTIONS 2*5=10

20.Charecteristics of Anemophilous plants

OR

Polygenic inheritance in wheat kernel colour

21.Application of Biotechnology

OR

Mutation Breeding

PREPARED BY

MR .C SANTHANA

KUMAR M.SC,B.ED,Ph. D

COIMBATORE