



SHRI KRISHNA ACADEMY

NEET, JEE AND BOARD EXAM COACHING CENTRE
SBM SCHOOL CAMPUS, TRICHY MAIN ROAD, NAMAKKAL

CELL: 9965531727-9443231727

CLASS: XII BIO-BOTANY

FULL TEST - I

MARKS : 35

DATE:

TIME: 1.15 hrs

PART I

I. Choose the correct answer :

8 x 1 = 8

- 1) First cell of male gametophyte in angiosperm is
 - a. Microspore
 - b. Megaspore
 - c. Nucleus
 - d. Primary endosperm nucleus
- 2) The scourge of water bodies and water hyacinth (*Eichhornia crassipes*) is an invasive weed on water bodies like ponds, lakes and reservoirs it is popularly called _____
 - a. Terror of Mumbai
 - b. Terror of Chennai
 - c. Terror of Bengal
 - d. Terror of Delhi
- 3) The A and B genes are 10 cm apart on a chromosome. If an AB/ab heterozygote is test crossed to ab/ab, how many of each progeny class would you expect out of 100 total progeny?
 - a. 25 AB, 25 ab, 25 Ab, 25 aB
 - b. 10 AB, 10 ab,
 - c. 45 AB, 45 ab,
 - d. 45 AB, 45 ab, 5 Ab, 5 a
- 4) Choose the incorrect pair
 - a. Arabidopsis - Space
 - b. Alternative splicing - Stress response
 - c. mRNA - Codons
 - d. AUG - Stop codon
- 5) "Jaya" and "Ratna" developed for green revolution in India are the varieties of
 - a. Bajra
 - b. Maize
 - c. Rice
 - d. Wheat
- 6) The plant of this group are adapted to live partly in water and partly above substratum and free from water
 - a. Xerophytes
 - b. Mesophytes
 - c. Hydrophytes
 - d. Halophytes
- 7) Depletion of which gas in the atmosphere can lead to an increased incidence of skin cancer?
 - a. Ammonia
 - b. Methane
 - c. Nitrous oxide
 - d. Ozone
- 8) Statement A: Coffee contains caffeine
Statement B: Drinking coffee enhance cancer
 - a. A is correct, B is wrong
 - b. A and B both are correct
 - c. A is wrong, B is correct
 - d. A and B both are wrong

PART II

II. Answer the following questions (any four):

4 x 2 = 8

- 9) What is endothelium?
- 10) Define: Alleles
- 11) Write the salient features of Sutton and Boveri concept
- 12) Why do submerged plant receive weak illumination than exposed floating plants in a lake?

- 13) What is pseudo cereal? Give an example.
 14) Name few plant species used in green manuring

PART III

III. Answer the following questions (any three) (Q. No. 19 is compulsory): **3 x 3=9**

- 15) Explain the laws of dominance in monohybrid cross
 16) What is gene mapping? Write its uses
 17) Write advantages of herbicide tolerant crops
 18) What is cryopreservation?
 19) Draw the diagram structure of epiphytic plant and label parts
 20) Discuss the gross primary productivity is more efficient than net primary productivity

PART IV

IV. Answer the following questions briefly: **2 x 5=10**

- 21) How sex is determined in monoecious plants? Write their genes involved in it
 (OR)
 What is soil profile? Explain the characters of different soil horizons
 22) Write a note on Teak as a valuable source of wood
 (OR)
 Enumerate the anatomical adaptation of xerophytes

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