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Reg. No. : _____

Code No. : 20376 E Sub. Code : AEBO 61

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL, 2023

Sixth Semester

Botany

Major Elective - I — HORTICULTURE AND PLANT BREEDING

(For those who joined in July 2020 onwards)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The study of flower is called

- (a) Botany (b) Floriculture
(c) Phenology (d) Zoology

2. Indoor garden is generally

- (a) Light loving
(b) Shade loving
(c) Sea water loving
(d) Desert loving

3. Kitchen garden are also known as

- (a) Home garden
(b) Nutrition garden
(c) Vegetable garden
(d) All of the above

4. Artificial propagation of plants are done by how many method?

- (a) 6 (b) 5
(c) 4 (d) 3

5. Main feature of English garden is

- (a) Lawn (b) Rockery
(c) Lanterns (d) Borders

6. The art of making animal shape in plant is

- (a) Topiary
- (b) Pinching off
- (c) Edging
- (d) Hardening

7. A hybrids always

- (a) Heterozygous
- (b) Homozygous
- (c) Both of the above
- (d) Often homozygous

8. Which is the oldest breeding method?

- (a) Hybridization
- (b) Selection
- (c) Mutation breeding
- (d) Introduction

9. Somatic hybridization is achieved through

- (a) Grafting
- (b) Conjugation
- (c) Protoplast fusion
- (d) rDNA technology

10. Heterosis is

- (a) Hybrid compatibility
- (b) Hybrid vigour
- (c) Pollen sterility
- (d) Pollen pistil incompatibility

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Describe about landscaping garden.

Or

(b) Discuss about formal Kitchen garden.

12. (a) Describe, the post harvest technology.

Or

(b) Write about patch budding.

13. (a) Comment on Hedges.

Or

(b) Elucidate on hanging basket.

14. (a) Enumerate - the mass lines selection.

Or

(b) Describe, plant introduction agency in India.

15. (a) Describe, mutation breeding procedure.

Or

(b) Enumerate the application of polyploidy breeding.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain different types of gardening.

Or

(b) Write the scope of horticulture.

17. (a) Discuss about transplantation method.

Or

(b) Contrast about cutting, grafting.

18. (a) Explain water garden.

Or

(b) Enumerate about garden tools.

19. (a) Describe about Heterosis breeding.

Or

(b) Purposes of plant introduction - discuss.

20. (a) Explain physical mutagens.

Or

(b) Compare somaclonal variation and selection method.