

(6 pages)

Reg. No. : .....

Code No. : 20538 E      Sub. Code : CEBO 61

B.Sc. (CBCS) DEGREE EXAMINATION,  
APRIL 2024.

Sixth Semester

Botany

Elective I — HORTICULTURE AND PLANT  
BREEDING

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Vegetable are rich source of

- |              |                   |
|--------------|-------------------|
| (a) vitamins | (b) carbohydrates |
| (c) proteins | (d) fats          |

2. The term olericulture is related to

- (a) Vegetable science
- (b) Flower science
- (c) Crop science
- (d) Fruit science

3. The most common vegetative propagation method in rose is

- |              |                    |
|--------------|--------------------|
| (a) layering | (b) grafting       |
| (c) budding  | (d) tissue culture |

4. Which one of the vegetables are the root plant?

- |             |                 |
|-------------|-----------------|
| (a) Brinjal | (b) Carrot      |
| (c) Tomato  | (d) Cauliflower |

5. "Bonsai" is Japanese art of

- (a) Painting
- (b) Growing small tree
- (c) Making doll
- (d) Arranging flowers





6. Which type of tool is try-square?  
(a) marking and checking  
(b) marking  
(c) checking  
(d) lining
7. Progeny of breeder seed is referred as  
(a) breeder seed  
(b) nucleus seed  
(c) foundation seed  
(d) certified seed
8. Wide crossing is also known as  
(a) Distant hybridization  
(b) Intergeneric hybridization  
(c) Hybrid  
(d) Cybrids
9. Triticale has been evolved by hybridization between  
(a) rice and maize  
(b) wheat and rice  
(c) wheat and rye  
(d) ragi and maize

Page 3 Code No. : 20538 E

10. Which is the chemical induced polyploid in plants  
(a) Formaline (b) Colchicine  
(c) 5-Bromouracil (d) Glycerin

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Write the comment about kitchen garden.

Or

- (b) Mention about ornamental plant.

12. (a) Compare Bulb and Corm.

Or

- (b) How to prepare scion and stock? Describe.

13. (a) Compare watering can and tree pruner.

Or

- (b) Distinguish between Fuchsias and hanging basket.

Page 4 Code No. : 20538 E  
[P.T.O.]





14. (a) Write the objective of plant breeding.

Or

(b) Discuss inter specific plant hybrids.

15. (a) Write the chemical mutagenesis.

Or

(b) Mention the benefits of plant breeding for disease resistance.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Compare hydroponic garden and informal garden.

Or

(b) Explain about chip budding.

17. (a) Explain inverted 'T' buds preparation.

Or

(b) Describe the layering method.

Page 5 Code No. : 20538 E

18. (a) Contrast air layering and tip layering.

Or

(b) Explain the style of Bonsai.

19. (a) Enumerate the application of plant breeding.

Or

(b) Explain the classical plant breeding.

20. (a) Induced mutation - Explain.

Or

(b) Discuss about crop improvement by polyploidy breeding.

Page 6 Code No. : 20538 E

