

(6 pages)

Reg. No. :

Code No. : 10839 E Sub. Code : SEBO5C

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2020.

Fifth Semester

Botany – Main

Major Elective – II — HORTICULTURE AND PLANT
BREEDING

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Floriculture is the study of
 - (a) Vegetables (b) Flowers
 - (c) Fruits (d) Foliage

2. Scion is used in
- (a) cutting
 - (b) grafting
 - (c) layering
 - (d) none of the above
3. Which one is the famous formal garden?
- (a) Rayal garden
 - (b) Newyork garden
 - (c) Kolkata garden
 - (d) Tajmahal garden
4. The Japanese art of dwarfing plants is called
- (a) pruning
 - (b) terrarium
 - (c) trophy
 - (d) bonsai
5. In plants, sexual propagation is carried out by
- (a) seed
 - (b) layering
 - (c) cutting
 - (d) budding
6. Panchakavya is a ————— manure.
- (a) natural
 - (b) artificial
 - (c) seed product
 - (d) all the above

7. Who discovered pure line selection?
- (a) Hooker (b) Engler
(c) Johansen (d) Bentham
8. IARI is located in _____.
(a) Coimbatore (b) Simla
(c) Nagpur (d) New Delhi
9. Gamma rays are obtained from
(a) Cobalt 60 (b) Phosphorous 32
(c) Sulphur 35 (d) Iodine 32
10. Chemical that induces polyploidy
(a) Ethylene (b) Colchicine
(c) Giberellic (d) Acetic acid

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) List out the importance of Horticulture.

Or

- (b) Describe Stem cutting.

12. (a) Explain briefly about the various components of a garden.

Or

- (b) Write about Rockery garden.

13. (a) Write a short notes on growth regulators.

Or

- (b) Describe the various protection measures in horticultural plants.

14. (a) Give a brief account on mass selection method.

Or

- (b) List out the objectives of plant breeding.

15. (a) List out the chemical mutagens used in mutation breeding.

Or

- (b) List out the varieties released through mutation breeding method.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Explain about various methods of grafting.

Or

- (b) List out the advantages and disadvantages of vegetative propagation.

17. (a) Write an essay on Indoor gardening.

Or

- (b) Write an account on Bonsai.

18. (a) How will you propagate the horticultural plants by seeds?

Or

- (b) Explain transplantation techniques.

19. (a) Explain pure line selection method.

Or

- (b) Describe the hybridisation techniques.

20. (a) Explain about polyploidy breeding.

Or

(b) Discuss the artificial mutation methods followed in mutation breeding.
