

FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION, NOVEMBER 2022

Botany

BOT 5D 02—APPLIED BOTANY

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

Section A

*Answer all questions.**Each question carries 2 marks.**Ceiling : 20 marks.*

1. Mention two advantages and two disadvantages of seed propagation.
2. Enlist methods to stimulate seed germination.
3. Define Layering. Mention two species propagated by air layering.
4. What are NPK fertilizers? Mention a nitrogen fertilizer.
5. Compare chemical fertilizers and organic manures.
6. What are biopesticides? Mention two examples.
7. Mention two transplanted vegetables.
8. Define bioefficiency of substrate in mushroom cultivation.
9. Mention advantages of vermicomposting.
10. Mention two methods of application of biofertilizers.
11. Explain what is meant by training in Bonsai.
12. Mention Botanic name, family and morphology of useful part of any oil yielding plant.

Section B

*Answer all questions.**Each question carries 5 marks.**Ceiling : 30 marks.*

13. Define Dormancy of seeds. What is its significance? Explain methods of breaking dormancy with one example for each.
14. Define pH. Explain its effect on fertility of soil. Suggest pH correction methods.

Turn over

5. Write note on potting mixtures.
6. Discuss chemical methods of plant protection.
7. Explain Rhizobium bio-fertilizer technology.
8. Give an account on mushroom cultivation.
9. Explain how an orchid is cultivated.

Section C

Answer any **one** question.

The question carries 10 marks.

20. What are chemical fertilizers? Explain types, application, merits and demerits of chemical fertilizers.
21. Explain different methods of vegetative propagation in plants with examples.

(1 × 10 = 10 marks)

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