

D 110106

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Name.....

Reg. No.....

**FIFTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2024**

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. Enlist different types of soils.
2. Distinguish depotting and repotting.
3. Mention two examples for nitrogen fertilizer.
4. Enlist two examples for transplanted vegetables.
5. Mention two methods for scarification.
6. Which are the factors that influence seed germination ?
7. What are the demerits of organic manure ?
8. Write irrigation methods in the order of their efficiencies.
9. What are systemic fungicides ? Mention an example.
10. Explain mound layering with an example.
11. What are antagonistic micro-organisms ? Mention an example.
12. What are the advantages of micropropagation ?

Turn over

Section B

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

13. Compare seed propagation and vegetative propagation.
14. What are the precautions necessary in transplanting ?
15. Define Grafting. Describe various types with examples.
16. Explain methods of correcting soil pH. What is the significance of soil pH on plant growth ?
17. Write note on mushroom spawn production.
18. Explain physical and mechanical methods of pest control.
19. Define Spices. Write botanic name, family and morphology of useful part of any *two* spices.

Section C

*Answer any one question.
The question carries 10 marks.*

20. Give a detailed account on biofertilizer technology.
21. Give a detailed account on Orchid cultivation.

(1 × 10 = 10 marks)

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

1. What is the composition of potting mixture for garden plants ?
2. Explain the term *Fertilizer Grade*.
3. Mention the advantages of drip irrigation over surface irrigation.
4. Define seed dormancy. Mention its' significance.
5. Define *Explant*. Mention any *one*.
6. What is meant by Budding. Mention any *two* types.
7. Define Spawn. Mention the most common type of spawn.
8. What are Biofertilizers ? Mention a Phosphorus biofertilizer.
9. Mention four orchids used in floriculture.
10. What is meant by *Bonsai* ?
11. Mention botanic name of one solanaceous and one cucurbitaceous vegetable.
12. Specify botanic name, family and morphology of useful part of wheat.

Turn over

Section B

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

13. Define Biological control. Mention technical names of two antifungal and two insecticidal biocontrol agents.
14. Explain nutritional contents, types application and significance of organic manure.
15. Enlist advantages and disadvantages of vegetative propagation.
16. Write note on transplanting and aftercare of seedlings.
17. Outline steps on Oyster mushroom cultivation.
18. Explain the technique of vermicomposting.
19. Write note on methods of propagation in orchids.

Section C

*Answer any one question.
The question carries 10 marks.*

20. Give a detailed account on Micropropagation.
21. Give a detailed account on soil-composition, types, texture, pH, correction of pH and humus content.

(1 × 10 = 10 marks)