2023

3rd Semester Examination BOTANY (Honours)

Paper: SEC 1-T

[CBCS]

Full Marks: 40

Time: Two Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

[Biofertilizer]

Group - A

Answer any five of the following questions:

 $2 \times 5 = 10$

- 1. Define organic farming.
- 2. Why mycorrhizae are considered as bio-fertilizer?
- 3. What are inoculants?
- 4. Mention the role of biofertizer in agriculture.
- 5. What are "Actinomycorrhizal symbiosis"?
- List up atleast four microorganisms, used as bio-fertilizers.

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- 7. Name two phosphate solubilizing bacteria.
- 8. What is 'Hertig net'?

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Answer any *four* of the following questions: $5 \times 4 = 20$

- 9. Discuss the process of isolation. Identification and mass multiplication of *Rhizobium*. 2+1+2
- 10. Discuss the types and methods of vermicomposting.

2 + 3

- 11. Classify mycorrhizae. Give the role of mycorrhizae on production of crop plants. 2+3
- 12. Give the role of Cyanobacteria (BGA), Azolla and Anabaena as nitrogen fixers in rice fields.
- 13. Give a flow-chart for the recycling of municipal biodegradable wastes.
- 14. write notes on (any two):

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- (a) Geen manuring proess
- (b) Methods for inoculum production of VAM
- (c) Mass multiplication process of Azospirillum.

Group - C To do son nother A.

Answer any *one* of the following questions: $10 \times 1 = 10$.

Discuss the colonization and isolation process of VAM.
 State the field application of Vermicompost. 3+4+3

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16. Discuss the importance of phosphat solubilizing microorgainsms used as bio-fertilizers. Justify the use of *Rhizobium* sp for Crop enhancement. 5+5

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Or

[Floriculture]

Group - A

Answer any five of the following questions:

 $2 \times 5 = 10$

- 1. What are defoliation and mulching of gardening?
- 2. Name two examples of plant growth regulating hormones.
- 3. Name two famous garden in India.
- 4. What is vegetative propagation? Mention its advantages.
- Mention the differences between glass house and shade house.
- 6. What does it mean by gardening? Mention its types.
- 7. What is Bonsai? Name a plant used in Bonsai.
- 8. Name two ideal plants used in hydrophonic cultivation.

Group - B

Answer any *four* of the following questions: $5 \times 4 = 20$

- 9. Write a short note on landscaping of an educational institute.
- 10. Briefly mention the features of horticultural gardening.
- 11. What does it mean by floriculture? State its importance.
- 12. Briefly mention the methods of sterilization of soil of garden.

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- 13. What are seed viability and seed sowing? What is cut flower? Cite two examples. 3+2
- 14. Write a short note on the factors that affect the flower production in Horticultural plants.

Group - C

Answer any *one* of the following questions: $10 \times 1 = 10$

- Define pest. Mention 4 pest born diseases and theeir repective symptoms in ornamental plants. Name two chemical pesticides.
- 16. What is indoor gardening? Name two indoor herbaceous plants. Mention the types of indoor gardening and the factors that affect indoor plants.

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