2019

B.Sc.

## 3rd Semester Examination

## **BOTANY** (Honours)

Paper - SEC I-T

Full Marks: 40

Time: 2 Hours

The figures in the margin indicate full Marks. Candidates are required to give their answers in their own words as far as practiable. Illustrate the answers wherever necessary.

## **BIOFERTILIZER**

1. Answer any five questions:

 $2 \times 5 = 10$ 

- a) What is biofertilizer?
- b) Define phyllosphere.
- c) What is organic manure?
- d) What is biodegradable municipal waste?
- e) Which is the suitable medium for Azotobacter?
- f) What are diazotrophs?
- g) Which species of Azospirillum is generally found associated with the roots of C-4 plants?

[ Turn Over ]

h)	What is green manure?		
2.	Answer any four questions:	5 × 4	
a)	hat is VAM? Write the influence of VAM on		
8	growth and yield of crop plants.	2 + 3	
b)	Write in brief the beneficial role of	3 + 2	
	i) BGA in rice cultivation.		
	ii) Rhizobium as biofertilizer.		
c)	Write the method of vermi composting. W	ite the method of vermi composting. Write two	
	eld applications of vermi compost with examples.		
		3 + 2	
d)	nat is endomycorrhiza? Mention the advantages		
	and disadvantages of organic fertilizers.	1 + 4	
e)	Compare between Agricultural waste and Municipal		
	waste.	5	
$f_j$	Vrite a short note on Mass multiplication processes		
	of Rhizobium.	5	
	Answer any one question:	$10 \times 1$	
a)	Write short notes on	$5 \times 2$	
1)	Recycling of agricultural waste.		
ii)	Describe the Methods of biocompost preparation.		
b)	Write in brief on the following:	$2 \times 5$	
i)	Occurance and distribution of mycorrhiza.		
ii)	Actinorrhizal symbiosis.		
iii)	Recycling of Industrial waste.		

- iv) Microbial inoculation.
- v) Associative effect of different microorganisms.

## **FLORICULTURE**

Full Marks: 40

Time: 2 Hours

1. Answer any five questions:

 $2 \times 5 = 10$ 

- a) Define landscape gardening with example.
- b) Write note on 'Bonsai'
- c) How is the vase life of cut flowers prolonged?
- d) Distinguish between scion and stock.
- e) Give two methods for soil sterilization.
- f) What is called mulching?
- g) What are shade loving plants and light loving plants? Give examples.
- h) Name two diseases of ornamental plants caused by pests.

2. Answer any four questions:

 $5 \times 4 = 20$ 

a) Give the methods for the cultivation of Rose flower.

5

b) Compare indoor gardening and outdoor gardening procedures.  $2\frac{1}{2} + 2\frac{1}{2}$ 

[ Turn Over ]

c) Classify ornamental plants.

5

- d) Write the role of plant growth regulators in nursery management.
- e) What is landscaping? Discuss on the importances of it. 2 + 3
- f) Discuss in brief the production and packaging methods of cut flowers. 3 + 2
- 3 Answer any one question:

 $10 \times 1 = 10$ 

- a) Elaborate briefly:
  - i) Principles of Japanese garden designing
  - ii) Factors affecting productions in commercial floriculture. 6 + 4 = 10
- b) Write notes on
  - i) Cultivation of orchids.
  - ii) Planting and transplanting in nursery management.

5 + 5