



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY
Question Paper

B.Sc. Honours Examinations 2020

(Under CBCS Pattern)

Semester - III

Subject: BOTANY

Paper : SEC 1-T

Full Marks : 40

Time : 2 Hours

Candidates are required to give their answer in their own words as far as practicable.

The figures in the margin indicate full marks.

SEC 1-T [Theory]

(Biofertilizers)

Answer any **two** questions from the following : $2 \times 20 = 40$

1. i. What is Green manure?
 - ii. Mention two advantages of organic fertilizer.
 - iii. Describe the isolation, identification and mass multiplication (carrier based inoculants) of *Rhizobium sp.*
 - iv. Write the general account about the microbes used as biofertilizer. 3+3+8+6
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2. i. Mention partners of actinorrhizal symbiosis.
 - ii. Name two VAM members.

- iii. Write about VAM and its influence on growth and yield of crop plants.
- iv. What is biofertilizer? Write the role of blue green algae and *Azolla* in rice cultivation. 3+3+7+7
3. i. What is biocompost?
- ii. What is leg-haemoglobin?
- iii. Write detail about the isolation and mass multiplication of *Azotobacter sp.*
- iv. Describe the methods for biocompost making. 3+3+7+7
4. i. What is carrier?
- ii. Give example of two heterocyst forming cyanobacteria.
- iii. Describe the *Azolla* and *Anabaena azollae* association in nitrogen fixation.
- iv. Write the types and method of vermicomposting. 3+3+7+7

Paper : SEC 1-T [Theory]

Floriculture

Answer any *two* questions from the following : 2 × 20 = 40

1. i. What is floriculture? What is the importance of floriculture?
- ii. Describe the method of cultivation, production and packaging of Dahlia.
- iii. How do you keep flowers from dying in vase?
- iv. What are the two methods of soil sterilization? (2+3)+6+3+6
2. i. What do you mean by pinching?
- ii. How do you prepare soil for planting in pots?
- iii. What do mean by flowering annuals? Classify it based on uses.
- iv. Define ornamental plants giving three examples. 3+6+(2+4)+5
3. i. What is pricking in floriculture?
- ii. Define indirect seed sowing.

- iii. Write the diseases and pests of Aster and Chrysanthemum.
 - iv. Describe the factors affecting the flower production.
 - v. Define hydroponics. 3+3+7+5+2
- 4.
- i. What is meant by defoliation?
 - ii. Define topiary of ornamental plants.
 - iii. What are the factors affecting indoor gardening.
 - iv. What do you mean by garden design? What are master principles of landscape design?
 - v. Write about the features of a garden. 2+3+4+(3+3)+5
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