SH/BOT/305-SEC-1/19

B.Sc. 3rd Semester (Honours) Examination, 2019-20

BOTANY

Course ID : 31315 **Course Code : SHBOT-305-SEC-1**

Course Title: Biofertilizer (Alternate-1)

Time: 2 Hours **Full Marks: 40**

The figures in the right hand side margin indicate full marks.

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

1. Answer *any five* of the following: 2×5=10

(a) What do you mean by biofertilizer?

(b) Name two carrier for the preparation of carrier based inoculant.

(c) Why BGA is important in rice cultivation?

(d) What is ectomycorrhiza?

(e) Name one test by which Rhizobium can be identified.

(f) Which medium is used for isolation of Azospirillum?

(g) What do you mean by BOD?

(i) What is crop response to inoculum?

2. Answer *any four* of the following: 5×4=20

(a) Why blue green alga can fix N_2? Give a short note about the importance of Azolla in rice cultivation. 1+4=5

(b) Describe the process of carrier based inoculant preparation with reference to Rhizobium. 5

(c) What is VAM? Mention its influence on growth and yield crop. 1+4=5

(d) Distinguish associated N_2-fixation and symbiotic N_2 fixation. Give example of one associative N_2-fixer. 1+4=5

(e) Describe the mass multiplication process of *Azospirillum*. 5

(f) Describe the making methods of biocomposting. 5

3. Answer *any one* of the following: 10×1=10

(a) Describe the isolation process of Rhizobium in laboratory. Give example of actinorrhizal symbiosis. 8+2=10

(b) What do you mean by organic farming? Briefly describe the method of vermicom–composting. 2+8=10

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B.Sc. 3rd Semester (Honours) Examination, 2019-20

BOTANY

Course ID : 31315 **Course Code : SHBOT-305-SEC-1**

Course Title: Herbal Technology (Alternate-2)

Time: 2 Hours **Full Marks: 40**

The figures in the right hand side margin indicate full marks.

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

1. Answer *any five* of the following: 2×5=10

(a) What is siddha system?

(b) What is pharmacognosy?

(c) Mention medicinal use of ginger.

(d) Name two active principles of *Catharanthus roseus*.

(e) What do mean by drug adulteration?

(f) Name two phenolic compound found in plant.

(g) Mention medicinal uses of Ashoka.

(i) Name a plant which is used against rheumatic disease.

2. Answer *any four* of the following: 5×4=20

(a) Mention the medicinal uses of Tulsi. What is the scientific name of the plant. 3+2=5

(b) What are the active principles of *Withania* somnifera. Mention their uses. 2+3=5

(c) Give a short note about future of pharmacognosy. 5

(d) Mention active principles and uses of *Clerodendron phlomoides*. 2+3=5

(e) Mention medicinal uses of Indian Goose berry and Fenugreek. 2½×2=5

(f) What is flavonoids and steroid? Mention their importance on the perspective of medicine. 2+3=5

3. Answer *any one* of the following: 10×1=10

(a) Describe the micropropagation of medicinal plant with special reference to neem. 10

(b) Briefly describe the phytochemical and biological testing of herbal drugs. 10

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B.Sc. 3rd Semester (Honours) Examination, 2019-20

BOTANY

Course ID : 31315 **Course Code : SHBOT-305-SEC-1**

Course Title: Floriculture (Alternate-3)

Time: 2 Hours **Full Marks: 40**

The figures in the right hand side margin indicate full marks.

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

1. Answer *any five* from the following questions: 2×5=10

(a) What is floriculture?

(b) Write two hybrid varieties of rose.

(c) Write two indoor plants glow best at day temperature range.

(d) Define a nursery.

(e) What is bonsai?

(f) What do you mean by vegetative propagation?

(g) Name two species of ornamental cacli.

(h) What are flower beds?

2. Write short notes on *any four* of the following: 5×4=20

(a) Water garden

(b) Pot cultivation of plants

(c) Functions of landscaping home

(d) Pest control of ornamental plants

(e) Off season cultivation practice of *Chrysanthemum*

(f) Soil sterilization of nursery.

3. Answer *any one* of the following: 10×1=10

(a) Write the cultivation process of marigold. What are the market trading process of rose? 8+2=10

(b) What is lawn? What are the major advantages of lawn? Explain different methods of flower arrangement. 2+3+5=10

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B.Sc. 3rd Semester (Honours) Examination, 2019-20

BOTANY

Course ID : 31315 **Course Code : SHBOT-305-SEC-1**

Course Title: Nursery and Gardening (Alternate-4)

Time: 2 Hours **Full Marks: 40**

The figures in the right hand side margin indicate full marks.

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

1. Answer *any five* from the following questions: 2×5=10

(a) Define gardening.

(b) Differentiate between manure and fertilizer.

(c) Why pruning is adopted in certain fruits like apple?

(d) How will you select a stock for grafting?

(e) What is seed bank?

(f) Write the function of glass house in nursery.

(g) What are the methods of indoor gardening?

(h) What is meant by seed bid?

2. Answer *any four* out of six questions: 5×4=20

(a) What is landscaping? Write the applications of computer in landsaping. 2+3=5

(b) What is seed dormancy? Write the causes and methods of breathing dormancy? 2+1+2=5

(c) What is pest? Mention the different pests of garden plants. Write the different measures to control such pests. 2+1+2=5

(d) Give an account of vegetative propagation methods practice in gardening purpose. 5

(e) What are parks? Describe the components of a park. 2+3=5

(f) Distinguish between seed and seeding. Discuss the process of transplanting of seedlings.

3. Answer *any one* of the following: 10×1=10

(a) Describe the cultivation process of brinjal. Mention the market trading process of it. 8+2=10

(b) What is nursery? What are the objectives of nursery? Write the different steps of nursery management. 2+2+6=10

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