



বিদ্যাসাগর বিশ্ববিদ্যালয়

**VIDYASAGAR UNIVERSITY**

**B.Sc. (Honours) in AGRICULTURE  
1st Semester Examination 2021**

**PAPER—AGS-101**

**FUNDAMENTALS OF HORTICULTURE**

*Full Marks : 70*

*Time : 3 Hours*

*The figures in the right-hand margin indicate full marks.*

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

*Illustrate the answers wherever necessary.*

**THEORY**

1. Answer any *ten* questions.

10×2

- (a) Define horticulture and mention their branches.
- (b) What is meant by HDP? Give two examples.
- (c) What are the suitable rootstocks of Apple and Mango?
- (d) What is organic farming?

- (e) What is parthenocarpy?
- (f) Write down the type of fruits of apple, plum, banana and jackfruit.
- (g) Define budding and give two examples of budding applied in two crops.
- (h) What is meant by pollination? Differentiate between herkogamy and dichogamy.
- (i) What is open center system?
- (j) What is kniffin system?
- (k) Write down the four objectives of purning.
- (l) Write down the nutrient deficiency symptom of nitrogen and phosphorus seen in agricultural crops.
- (m) Define of unfruitfulness.
- (n) What is meant by bahar treatment?
- (o) Mention the role of gibberellins in horticulture crops.

**2.** Answer any six questions. 6×5

- (a) Discuss the major business opportunities of horticulture. 5
- (b) Classify the horticulture corps based on soil and climatic requirements. Mention the fruit and vegetable zones of India. 3+2
- (c) Describe different types of nursery beds and mention their merits and demerit. 5
- (d) What does it mean by plant bio-regulators? Briefly discuss the use of plant bio-regulators in horticulture. 2+3

- (e) Write down the different steps in planning and management of orchards. 5
- (f) What is kitchen gardening? Name any four vegetable plants suitable for a kitchen garden. 3+2
- (g) Discuss the method of preparation of lawn. How a lawn can be maintained? 3+2
- (h) Define irrigation. Describe the different methods of irrigation followed in horticulture crops. 1+4
- (i) Define propagation. Describe the different method of propagation and mention their advantages and disadvantages. 1+4
- (j) Define autogamy and allogamy. Write down the contrivances of cross pollination. 2+3

### **PRACTICAL**

Answer any *two* questions. 2×10

1. Enumerate the different tools used in horticulture. Mention their specific implementations. 5+5
2. Identify the horticulture crops based on their botanical name, common name, family and chromosome number.
3. What are hedge plants? Write down the name of some common shrubs, climbers and trees used during landscape gardening. Discuss the importance of landscape gardening. 2+6+2
4. Prepare layout plan of nursery. Write the parameters considered for site selections of horticulture nursery. 4+6

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