

## PUBLIC SERVICE COMMISSION, WEST BENGAL

Scheme and Syllabus for Preliminary Screening Test for recruitment to the post of Assistant Director of Horticulture [Advt. No. 4(1)/2020] to be conducted by Public Service Commission, West Bengal:

### A) Scheme

- i) Number of questions and mark on each question: 100, each carrying 1 mark.
- ii) Duration of Exam: 1 hour and 30 minutes.
- ii) Type of question: MCQ type.

There will be negative marking of  $\frac{1}{3}$  mark for each wrong answer.

### B) Syllabus: Seventy percent (70%) marks on core subject.

Ten percent (10%) marks will be allocated for each of the following:

- (i) English
- (ii) Arithmetic and Reasoning
- (iii) General Knowledge & Current Affairs

### Syllabus for core subjects

#### Part-I:

##### A. Fruit Science (9 marks)

Introduction; Plant Propagation and Nursery Management; Tropical and Sub Tropical Fruits; Temperate Fruit Crops; Dry-land Horticulture: Breeding of Fruit Crops

**B. Vegetable Science (9 marks)**

Tropical and Sub Tropical vegetables; Temperate Vegetables and Tuber Crops; Precision Farming and Protected Cultivation of Vegetables; Breeding and Seed Production of Vegetable Crops.

**C. Plant Pathology (5 marks)**

Fundamentals of Plant Pathology; Diseases of Fruit, Plant and Aromatic crops; Diseases of Vegetable, Ornamental and Spice crops.

**D. Entomology (5 marks)**

Fundamentals of Entomology; Principles of Pest Management and Productive Insects (Economic classification of Insects; Importance and History of apiculture); Pests of Fruit, Vegetable, Ornamental and Spice Crops.

**E. Biotechnology and Crop Improvement (7 marks)**

Elementary Plant Biochemistry: Introductory Crop Physiology; Growth and Development of Horticulture Crops; Principles of Genetics and Cytogenetics; Principles and Methods of Plant Breeding; Introduction to Plant Biotechnology; Principles of Seed Production in Horticulture Crops.

**Total 35 marks**

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**Part II**

**A. Floriculture (9 marks)**

Ornamental Horticulture; Commercial Floriculture: Protected Cultivation of Flower Crops: Breeding and Seed Production of Flower Crops:

**B. Plantation, Spices, Medicinal and Aromatic Crops (9 marks)**

Plantation Crops; Spices and Condiments; Breeding of Spices and Plantation Crops.

*C. Post Harvest Technology (4 marks)*

*Post-Harvest Management of Horticultural Produce; Processing of Horticultural Produce.*

*D. Natural Resources Management (9 marks)*

• *SOIL SCIENCE AND AGRICULTURAL CHEMISTRY*

*Fundamentals of Soil Science; Soil, Water and Plant Analysis; Soil Fertility and Nutrient Management.*

• *AGRONOMY*

*Water Management in Horticulture Crops; Agro-meteorology and Climate Change; Major Field Crops; Organic Farming; Weed Management in Horticulture Crops*

• *ENVIRONMENTAL SCIENCE*

*Environmental Studies and Disaster Management*

*E. Social and Allied Sciences (2 marks)*

*Economics and Marketing; Elementary Statistics; Horticulture Farm and Financial Management.*

*F. M.I.D.H. (2 marks)*

**Total 35 marks**

**By order of the Commission**