

# **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 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**

## **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**