RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SCHEME & SYLLABUS FOR THE POST OF ASSISTANT
CONSERVATOR FOREST & FOREST RANGE OFFICER GRADE I
1ST
COMPETITIVE EXAMINATION, 2018
FOREST DEPARTMENT

OPTIONAL SUBJECT - HORTICULTURE

UNIT I


UNIT II


UNIT III

**Fruit Production** : Importance, scope and present status of fruit production in Rajasthan and India. Area and production, geographical distribution, important varieties, propagation methods, soil and climatic requirements. Layout & planting, manuring, irrigation, training and pruning, intercropping, weed control. Harvesting, grading, packaging, marketing and storage of mango, banana, citrus, guava, papaya, pomegranate, aonla, tamarind, ber, karonda, apple, datepalm, lasoda, bael. Management of important pests and diseases of above fruit crops. Special problems in fruit culture like alternate
bearing, malformation, spongy tissue, black tip of mango, bitter pit in apple, die back and granulation in citrus, bronzing in guava, fruit cracking in pomegranate, bael etc. High density planting in fruit crops. Suitability of fruit crops for soil salinity and alkalinity.

**UNIT IV**

**Vegetable Production** : Importance of vegetables from nutritional and economic security. Present status of vegetables in India and Rajasthan. Classification of vegetable crops. Types of vegetable farming. Climate, soil, improved varieties, nursery raising, planting, manuring, irrigation, weed control, intercultural operations, use of growth regulators, special intercultural practices in vegetables like tomato, brinjal, chillies, okra, cucurbits, cluster bean, cole crops, root crops, garden peas, and potato. Harvesting, yield, grading, packing, storage and marketing of vegetables. INM (Integrated Nutrient Management) and use of starter solutions in vegetable production. Poly house cultivation of bell pepper, cucumber and tomato.

**UNIT V**

**Ornamental Horticulture, Aromatic and medicinal crops** : Importance and scope of ornamental gardening and floriculture. Principles of garden designing, types of garden, garden features and adornments. Types of lawn grasses, annual flowers, shrubs, trees, climbers and creepers, herbaceous plants, palms and their use in gardening. Lawn making, rockery, flower arrangement, bonsai, topiary work. Open cultivation of rose, chrysanthemum, gladiolus, jasmine, marigold. Protected cultivation and its scope and problems in India. Protected cultivation of rose, gerbera. Cultivation of lemon grass, vetiver, opium, isabgol, ashwagandha etc.

**UNIT VI**

UNIT VII

**Spices and Condiments**: Importance, present status and future scope of spices and condiment crops in India and Rajasthan. Cultivation aspect of various Spices and Condiments: black pepper, ginger, turmeric, chilli, cumin, fenugreek, fennel, coriander, Ajoivan, Dill.

UNIT VIII


**Note**: Pattern of Question Paper

1. Objective type paper
2. Maximum Marks: 200
3. Number of Questions: 120
4. Duration of Paper: Three Hours
5. All questions carry equal marks.
6. There will be Negative Marking.