

## ANNEXURE (VII)- Syllabus

### **Part-A (Subject)**

Basic knowledge of Agronomy, Soil Science, Plant Breeding, Entomology, Plant Pathology and Extension Education. Growth and development of crops; weather and climate; crop classification. Farm tools and implements. Calculations on seed rate, plant population, fertilizer, herbicide, irrigation requirement, land measurements, etc. Technologies for improved cultural practices for different field crops starting from seeding to grain maturation. Field preparation, sowing methods, time of sowing, etc. Efficient management practices for tillage, fertilization, irrigation and drainage, weed control, nutrient re-cycling, mulches and crop residue management; crop rotation, multiple cropping, mixed cropping, intercropping. Crop diversification, precision agriculture, integrated farming system, organic farming and sustainable agriculture. Seed production of different field crops. Integrated disease and pest management in field crops.

### **Part-B**

#### **General Knowledge, Logical Reasoning & Mental Ability**

##### **(a) General Knowledge & Current affairs**

General Knowledge and Current affairs of National and International importance including:

- (i) Economic issues.
- (ii) Polity issues.
- (iii) Environment issues.
- (iv) Geography.
- (v) Science and Technology.
- (vi) Any other current issues.
- (vii) (a) History of India with special reference to Indian freedom struggle movement.  
(b) History of Punjab- 14th century onwards.

##### **(b) Logical Reasoning, Mental Ability & Quantitative Aptitude.**

- (i) Logical reasoning, analytical and mental ability.
- (ii) Basic numerical skills, numbers, magnitudes, percentage, numerical relation appreciation.
- (iii) Data analysis, Graphic presentation charts, tables, spreadsheets.