

## UPPSC LT Assistant Teacher Pattern / Syllabus 2018

### **SYLLABUS**

#### **Subject: Agriculture**

Definition, concept, scope and development of Agronomy, Climate based classification of crops. Environmental factors affecting crop production. Weather forecast. Scientific cultivation of important cereals, pulses, Oil seeds, fodder. Fibre and cash crops.

Concept of horticulture, its importance and scope. Orchard and kitchen gardening. Scientific cultivation of major fruits and vegetable crops of U.P. Principles and methods of fruit and vegetable preservation. Causes of spoilage of fruits and vegetable products.

Definition of soil. Soil formation and development Physical, Chemical and Biological properties of soil. Soils of U.P. Essential plant nutrients and their deficiency symptoms. Manures, fertilizers and biofertilizers, problem soils and their reclamation. Soil erosion, causes and control measures. Soil testing.

Absorption of water and plant nutrients. Elementary idea of photosynthesis, respiration and transpiration. Types of seed and their quality.

Sources and methods of irrigation. Quality of irrigation water. Moisture conservation . Types of drainage-their merits and demerits.

Classification of pesticides, control measures of different weeds, insects and diseases of important cereal, fruits and vegetable crops.

Farm machinery and their maintenance. Tillage, intercultural and spraying equipments.

Important breeds of cows, buffaloes, sheep and goats. Methods of animal breeding. Principles of feeding. Maintenance and production ration: Description, symptoms, diagnosis and treatments of anthrax, foot and mouth, disease, rinderpest, mastitis and milk fever.

Farm records. Revenue records of holdings: Village and agricultural development programmes of Central and State Governments Agricultural Universities, KVK and other extension organizations.