

## TNPSC AO Syllabus 2018

### TNPSC Agriculture Officer Agriculture Topics Syllabus

- Agricultural Development through five-year plans in India and Tamil Nadu
- Government Agricultural Policies
- Agricultural development through NITI AYOOG
- Growth pattern of crops in India and Tamil Nadu in terms of area production and productivity

#### Crop Management & Allied Agricultural Activities

- Cropping systems and integrated farming
- Recycling of agricultural waste
- Balanced usage
- Integrated nutrient management
- Tractors & tillers
- Agricultural implements and Machinery and their usage
- Livestock and poultry rearing

#### Natural Resource Management

- Soil structure
- Physical and Chemical properties
- Water use efficiency
- Quality of irrigation water
- Factors influencing soil structure
- Problem soils and their management
- Soil fertility and productivity
- Dry farming
- Conservation of soil and water
- Watershed and wasteland development
- Size and distribution of holdings
- Command area development

#### Fundamentals of Crop Production

- Factors of Production
- Agricultural seasons of India and Tamil Nadu
- Cropping patterns in India and Tamil Nadu
- Package of practices of different crops

- Climatic zones of Indian & Tamil Nadu and their features
- Weather forecasting
- Minimal tillage
- Nanoparticles and their applications

### **Crop Improvement**

- Application of biotechnology in agriculture
- Principles of breeding
- Modern tools in crop improvement
- Latest varieties of major crops in Tamil Nadu
- Variety release procedures
- Transgenic Plants

### **Agricultural Marketing & Market Intelligence**

- Market structure
- Agmark-Cooperatives
- Commodity Boards
- Principles of Management
- Agricultural Price Policy
- Price Spread
- Marketing efficiency
- FRP- Procurement Price
- Economic liberalization
- Importance of Agriculture in the Indian economy

### **Seed Science and Technology**

- Seed certification techniques and processing in Tamil Nadu
- Seed enhancement technologies
- Seed testing laboratories
- ISTA standards for seed testing
- Seed village concept Seed Act
- Crop Protection Principles and Practices

### **Importance of pest**

- Plant quarantine
- Farm Business and Finance Management
- Symptoms of damages and control measures of pest
- Disease and nematodes of major crops in Tamil Nadu
- Pesticides and their use in IPM

- Plant protection equipment and their use

### **Principles of farm business management**

- Types and systems of farms
- Classical production functions
- Management of resources
- Farm Planning and budgeting
- Investment analysis
- Risk and uncertainties in agriculture
- Cost concepts
- Multi credit delivery system

### **Agricultural Extension: Principles and Methods**

- Rural Sociology
- Extension methods for transfer of technology
- AV aids
- Communication models
- Diffusion and adoption
- Role of women in agriculture

### **TNPSC Agriculture Officer General Studies Syllabus**

- Expansion and consolidation of British rule
- Political Science
- Tamil Nadu Judiciary in India
- The preamble to the constitution
- Salient features of the constitution
- History and culture of India
- General Science
- Physics
- Dravidian movement in TN-Political parties and populist schemes
- Indian National Movement
- Heat, light, and sound
- Atomic and nuclear physics
- Chemistry
- Biochemistry and biotechnology
- Electrochemistry
- Botany
- Nutrition and Dietetics
- Respiration

- Excretion of metabolic waste
- Biocommunication
- Zoology
- Biodiversity and its conservation
- National symbols
- Profile of States-Defence
- The emergence of national leaders
- Gandhi, Nehru, Tagore
- Human diseases-
- Current Events
- History
- Communalism led to a partition
- Geography
- Social geography
- population
- Forest & wildlife
- Agricultural pattern
- Economics
- Land reforms & agriculture-Application of science in agriculture Industrial growth
- WTO-globalization & privatization
- Science

## **TNPSC Agriculture Officer Aptitude and Mental Ability Syllabus**

- Communications in information technology
- Basic terms
- Alphanumeric Reasoning
- Number Series
- Analytical interpretation of data
- Simplification
- Percentage
- Highest Common Factor (HCF)
- Lowest Common Multiple (LCM)
- Ratio and Proportion
- Simple interest & Compound interest
- Area
- Volume
- Logical Number/Alphabetical/Diagrammatic Sequences
- Application of Information and Communication Technology (ICT)
- Decision making and problem-solving
- Logical Reasoning
- Puzzles

- Dice
- Visual Reasoning
- Conversion of information to data
- Collection, compilation, and presentation of data
- Tables, graphs, diagrams-Parametric representation of data
- Time and Work
- Behavioral ability