

Agriculture

DAILY ONLINE TEST Series Tentative Schedule

Units to be covered

Every month, the FIRST week of Sunday Subject paper (10.00 am – 1.00 pm)

Every month, the SECOND week of Sunday GS paper (10.00 am – 1.00 pm)

ONLINE TEST format, either as a Google form or as a PDF

Week order	Subject	GS
May 4 th	Natural Resource Management	Indian National Movement
June 1 st	Importance of Agriculture + Agricultural Extension	UNIT I: General Science + Aptitude and Mental Ability
June 2 nd	Fundamentals of Crop Production + Agricultural Extension	UNIT III: History, Culture of India + Aptitude and Mental Ability
June 3 rd	Crop Management & Allied Agricultural Activities	UNIT II: Geography of India + Aptitude and Mental Ability
June 4 th	Crop Improvement	UNIT IV: Indian Polity+ Aptitude and Mental Ability
July 1 st	Seed Science and Technology + Agricultural Extension	UNIT V: Indian Economy + Aptitude and Mental Ability
July 2 nd	Crop Protection Principles and Practices + Agricultural Extension	Development Administration in Tamil Nadu + Aptitude and Mental Ability
July 3 rd	Farm Business and Finance Management	UNIT VI: History, Culture, Heritage, and Socio-Political Movements in Tamil Nadu Aptitude and Mental Ability
July 4 th	Agricultural Marketing and Market Intelligence	Tamil Eligibility Test

Every week, 25–30 online test series will be provided to you via Google Classroom. The answer key will be released daily to enhance your preparation.

Best wishes for your success

AO FIRST WEEK SCHEDULE

Natural Resource Management content

1. Soil Structure & Influencing Factors
2. Soil Properties & Their Effects on Plants
3. Soil Health & Problem Soils
4. Soil Survey, Fertility, Productivity & Testing
5. Soil Nutrients & Integrated Nutrient Management
6. Dry Farming & Rainfed Agriculture
7. Soil & Water Conservation + Watershed Development
8. Land Use Planning, Holdings & Farming Systems
9. Water Resources Development & Management
10. Irrigation Water Quality & Management

AO SECOND WEEK SCHEDULE

Unit I: Importance of Agriculture

1. Importance of Agriculture in Indian Economy & Sectoral Linkages
2. Agricultural Development Through Five-Year Plans (India & Tamil Nadu)
3. Growth Pattern of Crops: Area, Production & Productivity (India & Tamil Nadu)
4. Government Agricultural Policies
5. Agricultural Development Through NITI Aayog
6. Import & Export of Agricultural Commodities
7. Role of National Seeds Corporation (NSC)
8. Role of Food Corporation of India (FCI)
9. Role of Public Distribution System (PDS)
10. Sustainable Development Goals (SDGs) in Agriculture

Unit X: Agricultural Extension: Principles and Methods

1. Extension Methods & Transfer of Technology
2. AV Aids & Communication Models

AO THIRD WEEK SCHEDULE

Unit II: Fundamentals of Crop Production

1. Factors of Production
2. Agricultural Seasons of India & Tamil Nadu
3. Cropping Patterns & Package of Practices of Different Crops
4. Agro-Climatic Zones of India & Tamil Nadu – Features
5. Weather, Climate, Weather Forecasting, Remote Sensing & GIS Applications
6. Climate Change – Impact on Agriculture
7. Minimal Tillage Practices & Stress Mitigating Technologies (Microorganisms)
8. Nanoparticles – Applications in Agriculture
9. Natural Farming, Bio-inoculants, Organic Certification & Standards
10. Drone Technology in Agriculture

Unit X: Agricultural Extension: Principles and Methods

1. ICT in Transfer of Technology
2. Diffusion & Adoption of Innovations
3. Pre & Post-Independence Rural Development Initiatives (Key features, strengths, weaknesses)

AO FOURTH WEEK SCHEDULE

Unit IV: Crop Management & Allied Agricultural Activities

1. Cropping Systems
2. Integrated Farming Systems
3. Recycling of Agricultural Waste
4. Organic Manures & Green Manures
5. Bio-fertilizers & Integrated Nutrient Management (INM)
6. Physiological Disorders in Crop Plants – Management
7. Plant Growth Regulators
8. Regulation of Flowering & Classification of Stresses
9. Physiological Adaptation of Crop Plants to Abiotic Stress
10. Irrigation Management of Different Crops
11. Mushroom Cultivation
12. Beekeeping & Silkworm Rearing
13. Energy in Agricultural Production (Solar, Wind, Animal, Biomass, Biogas)
14. Mechanization in Agriculture (Tractors, Tillers, Implements & Machineries)
15. Livestock & Poultry Rearing

AO FIFTH WEEK SCHEDULE

Unit V: Crop Improvement

1. Principles of Plant Breeding
2. Breeding Methods in Self-Pollinated Crops
3. Breeding Methods in Cross-Pollinated Crops
4. Breeding Methods in Vegetatively Propagated Crops
5. Modern Tools in Crop Improvement
6. Heterosis Breeding & Hybrid Seed Production Technologies
7. Synthetics & Composites
8. Breeding for Biotic, Abiotic & Quality Traits
9. Latest Varieties of Major Crops in Tamil Nadu & Variety Release Procedures
10. Application of Biotechnology in Agriculture – Tissue Culture & Its Significance

11. Transgenic Plants
12. Marker Assisted Selection – Markers & Mapping Populations
13. Speed Breeding
14. Plant Genetic Resources – Collection, Conservation & Exchange
15. Crop Varietal Protection – PPV&FR Authority & Its Role

AO SIXTH WEEK SCHEDULE

Unit VI: Seed Science and Technology

1. Importance of Quality Seeds in Agriculture
2. Seed Classes – Nucleus, Breeder, Foundation, Certified & Labelled Seeds
3. Characteristics of Good Quality Seeds
4. Seed Certification Techniques & Processing in Tamil Nadu
5. Seed Testing – Seed Testing Laboratories & ISTA Standards
6. Seed Village Concept
7. Seed Act
8. Seed Coating, Priming & Enhancement Technologies
9. Varietal Deterioration of Crops – Causes & Maintenance
10. Post-Harvest Handling of Seeds

Unit X: Agricultural Extension: Principles and Methods

1. Programme Planning & Evaluation Methods
2. Rural Sociology – Indian Rural System, Value System, Social Change & Rural Migration
3. Role of Women in Agriculture

AO SEVENTH WEEK SCHEDULE

Unit VII: Crop Protection Principles and Practices

1. Importance of Pest, Disease, Nematode & Weed Management – Categories of Pests, Diseases, Nematodes & Weeds
2. Pest & Disease Surveillance – Weather Forecasting on Pest/Disease Incidence
3. Symptoms, Biology & Control Measures of Major Crop Pests, Diseases & Nematodes in Tamil Nadu
4. Integrated Pest Management (IPM), Integrated Disease Management (IDM) & Integrated Nematode Management (INM)
5. Pesticides & Their Use in IPM – Mode of Action & Patterns
6. Plant Protection Equipment & Their Use
7. Plant Quarantine
8. Storage Pests, Diseases & Nematodes – Management
9. Biological Control – Importance in Pest, Disease & Nematode Management
10. Major Weeds & Their Control – Pollinators Safety, Banned & Next Generation Agro-chemicals

Unit X: Agricultural Extension: Principles and Methods

1. Social Organizations & NGOs
2. e-Agriculture, Digital Tools & ICAR/Government Extension Programs

AO EIGHTH WEEK SCHEDULE

Unit VIII: Farm Business and Finance Management

1. Farm Business Management – Principles, Types & Systems of Farms
2. Classical Production Functions & Cost Concepts
3. Management of Resources – Farm Planning & Budgeting
4. Investment Analysis
5. Risk & Uncertainties in Agriculture
6. Agricultural Credit System in India – Multi Credit Delivery System

7. Role of Nationalized Banks, NABARD, RRBs, Lead Bank Scheme & Service Area Approach
8. Scale of Finance, Credit Worthiness – 3Rs, 5Cs & 7Ps of Credit
9. Crop Insurance
10. Kisan Credit Card (KCC) & Agricultural Insurance Company

AO NINETH WEEK SCHEDULE

Unit IX: Agricultural Marketing and Market Intelligence

1. Marketing & Agricultural Marketing – Concepts and Importance
2. Market Structure, Marketing Efficiency & Price Spread
3. Market Integration, Market Risk, Speculation & Hedging
4. Market Institutions – Warehouses, Rural Godowns & Agmark
5. Cooperatives & Commodity Boards
6. Agri-Business Management – Farmer Producer Organizations (FPOs) & Agri-Business Incubation
7. Principles of Management & Entrepreneurship Development
8. Forms of Business Organizations
9. Agricultural Price Policy – CACP, MSP, FRP & Procurement Price
10. Policies for Agricultural Development & Economic Liberalization
11. WTO – Impact on Agricultural Export & IPR
12. APEDA & International Trading in Agricultural Commodities
13. Importance of Agriculture in Indian Economy – Land Size, Distribution of Holdings & Land Use Pattern in Tamil Nadu
14. Agriculture Under Five Year Plans (FYPs)
15. Food Security, Public Distribution System (PDS) & Buffer Stock