



TNPSC - AGRICULTURAL OFFICER EXAM - 2021

‘ENHANCE YOUR KNOWLEDGE BY OUR TEST SERIES’

TEST SERIES Starts On: Feb 24, 2021 Wednesday.

(OUR STRATEGY: COVERING SYLLABUS THROUGH MCQS)

UNDER THE GUIDANCE OF



C. RAJENDRAN, IAS.,
(B.Sc. AGRI., MBA)

TNPSC EXAM DETAILS

NO. OF PAPERS - 2 (TWO)

PAPER 1

AGRICULTURE (200 QUESTIONS)

PAPER 2

GS (100 QUESTIONS)

VACANCY : 365

EXAM DATE : APR 18, 2021



TEST SERIES FEATURES

Total No. of Tests - 18

3600 Questions in Paper 1

1800 Questions in Paper 2



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TEST PORTION



TEST NO	DATE	AGRICULTURE (Forenoon)	GENERAL STUDIES (Afternoon)
1	24.02.2021 WED	<p>IMPORTANCE OF AGRICULTURE</p> <p>Importance of Agriculture in Indian Economy and its sectoral relationship - Agricultural Development through five year plans in India and Tamil Nadu- Government Agricultural Policies - Agricultural development through NITI AYOJ - import and export - role of NSC, FCI and PDS.S</p>	<p>INDIAN POLITY</p> <ul style="list-style-type: none"> (i) Constitution of India - Preamble to the Constitution - Salient features of the Constitution - Union, State and Union Territory. (ii) Citizenship, Fundamental rights, Fundamental duties, Directive Principles of State Policy. (iii) Union Executive, Union legislature – State Executive, State Legislature – Local governments, Panchayat Raj. (iv) Spirit of Federalism: Centre - State Relationships. (v) Election - Judiciary in India – Rule of law. (vi) Corruption in public life – Anti-corruption measures - Lokpal and LokAyukta - Right to Information - Empowerment of women - Consumer protection forums, Human rights charter <p>APTITUDE AND MENTAL ABILITY</p> <ul style="list-style-type: none"> - Simplification
2	27.02.2021 SAT	<p>FUNDAMENTALS OF CROP PRODUCTION</p> <p>Factors of Production - Agricultural seasons of India and Tamil Nadu - Cropping patterns in India and Tamil Nadu - package of practices of different crops, Growth pattern of crops in India and Tamil Nadu in terms of area, production and productivity</p> <p>AGRO CLIMATIC ZONES of India and Tamil Nadu and their features - Weather and Climate - Weather forecasting - Climate change and its impact - Minimal tillage practices - Stress mitigating technologies including microorganisms – Nanoparticles and their applications</p>	<p>HISTORY, CULTURE, HERITAGE AND SOCIO - POLITICAL MOVEMENTS IN TAMIL NADU</p> <ul style="list-style-type: none"> (i) History of Tamil Society, related Archaeological discoveries, Tamil Literature from Sangam age till contemporary times. (ii) Thirukkural : (a) Significance as a Secular literature (b) Relevance to Everyday Life (c) Impact of Thirukkural on Humanity (d) Thirukkural and Universal Values - Equality, Humanism, etc (e) Relevance to Socio - Politico - Economic affairs (f) Philosophical content in Thirukkural (iii) Role of Tamil Nadu in freedom struggle - Early agitations against British Rule - Role of women in freedom struggle. (iv) Evolution of 19th and 20th Century Socio-Political movements in Tamil Nadu - Justice Party, Growth of Rationalism - Self



TEST NO	DATE	AGRICULTURE (Forenoon)	GENERAL STUDIES (Afternoon)
			<p>Respect Movement, Dravidian movement and Principles underlying both these movements, Contributions of Thanthai Periyar and Perarignar Anna.</p> <p>APTITUDE AND MENTAL ABILITY - Percentage</p>
3	02.03.2021 TUES	<p>NATURAL RESOURCE MANAGEMENT SOIL</p> <p>Soil structure - Factors influencing soil structure - Physical and Chemical properties - Effect of nutrient availability and plant growth - Problem soils and their management - Soil survey - its objectives and scope - Soil fertility and productivity - Land use pattern and planning - Size and distribution of holdings - types and systems of farming</p>	<p>DEVELOPMENT ADMINISTRATION IN TAMIL NADU</p> <p>(i) Human Development Indicators in Tamil Nadu and a comparative assessment across the Country – Impact of Social Reform movements in the Socio - Economic Development of Tamil Nadu.</p> <p>(ii) Political parties and Welfare schemes for various sections of people – Rationale behind Reservation Policy and access to Social Resources - Economic trends in Tamil Nadu – Role and impact of social welfare schemes in the Socio - economic development of Tamil Nadu.</p> <p>(iii) Social Justice and Social Harmony as the Cornerstones of Socio - Economic development.</p> <p>(iv) Education and Health systems in Tamil Nadu.</p> <p>(v) Geography of Tamil Nadu and its impact on Economic growth.</p> <p>(vi) Achievements of Tamil Nadu in various fields.</p> <p>(vii) e-governance in Tamil Nadu.</p> <p>APTITUDE AND MENTAL ABILITY - Lowest Common Multiple (LCM), - Highest Common Factor (HCF).</p>
4	05.03.2021 FRI	<p>NATURAL RESOURCE MANAGEMENT WATER</p> <p>Dry farming - Rainfed agriculture - Conservation of soil and water - Water shed and waste land development. - Water resources development and management - Command area development - Ground water</p>	<p>INDIAN NATIONAL MOVEMENT</p> <p>(i) National renaissance - Early uprising against British rule - Indian National Congress - Emergence of leaders - B.R.Ambedkar, Bhagat Singh, Bharathiar, V.O.Chidambaranar, Jawaharlal Nehru, Kamarajar, Mahatma Gandhi, Maulana Abul Kalam Azad, Thanthai Periyar, Rajaji,</p>



TEST NO	DATE	AGRICULTURE (Forenoon)	GENERAL STUDIES (Afternoon)
		Development and Conjunctive use - Water use efficiency - Quality of irrigation water - Its effect in soil and crops - Management of poor quality water for crop growth.	Subash Chandra Bose and others. (ii) Different modes of Agitation: Growth of Satyagraha and Militant movements. (iii) Communalism and partition. APTITUDE AND MENTAL ABILITY - Ratio and Proportion.
5	08.03.2021 MON	CROP MANAGEMENT Cropping systems and integrated farming - Recycling of agricultural waste - Organic manures, green manures, bio fertilizers - Balanced usage - integrated nutrient management - Physiological disorders in crop plants and their management Irrigation management of different crops	INDIAN ECONOMY (i) Nature of Indian economy – Five year plan models - an assessment – Planning Commission and Niti Ayog. (ii) Sources of revenue – Reserve Bank of India – Fiscal Policy and Monetary Policy - Finance Commission – Resource sharing between Union and State Governments - Goods and Services Tax. (iii) Structure of Indian Economy and Employment Generation, Land reforms and Agriculture - Application of Science and Technology in agriculture - Industrial growth - Rural welfare oriented programmes – Social problems – Population, education, health, employment, poverty. APTITUDE AND MENTAL ABILITY - Simple interest
6	11.03.2021 THURS	ALLIED AGRICULTURAL ACTIVITIES Mushroom cultivation, bee keeping, silkworm rearing etc., Energy in Agricultural production - Sources - Solar, wind, animal, biomass and biogas - livestock and poultry rearing. MECHANIZATION IN AGRICULTURE Tractors & tillers - Agricultural implements and Machineries and their usage of different crops.	HISTORY AND CULTURE OF INDIA (i) Indus valley civilization - Guptas, Delhi Sultans, Mughals and Marathas - Age of Vijayanagaram and Bahmani Kingdoms - South Indian history. (ii) Change and Continuity in the Socio - Cultural History of India. (iii) Characteristics of Indian culture, Unity in diversity – Race, language, custom. (iv) India as a Secular State, Social Harmony. APTITUDE AND MENTAL ABILITY - Compound interest



TEST NO	DATE	AGRICULTURE (Forenoon)	GENERAL STUDIES (Afternoon)
7	14.03.2021 SUN	<p>CROP IMPROVEMENT - PLANT BREEDING AND GENETICS</p> <p>Principles of breeding - Breeding methods in self, cross and vegetatively propagated crops - Modern tools in crop improvement – Heterosis breeding and Hybrid seed production technologies - Latest varieties of major crops in Tamil Nadu - Breeding for Climate resilience varieties – Variety release procedures</p>	<p>GENERAL SCIENCE</p> <ul style="list-style-type: none"> (i) Scientific Knowledge and Scientific temper - Power of Reasoning - Rote Learning Vs Conceptual Learning - Science as a tool to understand the past, present and future. (ii) Nature of Universe - General Scientific Laws – Mechanics - Properties of Matter, Force, Motion and Energy - Everyday application of the basic principles of Mechanics, Electricity and Magnetism, Light, Sound, Heat, Nuclear Physics, Laser, Electronics and Communications. (iii) Elements and Compounds, Acids, Bases, Salts, Petroleum Products, Fertilizers, Pesticides. (iv) Main concepts of Life Science, Classification of Living Organisms, Evolution, Genetics, Physiology, Nutrition, Health and Hygiene, Human diseases. (v) Environment and Ecology. <p>APTITUDE AND MENTAL ABILITY - Area – Volume</p>
8	17.03.2021 WED	<p>CROP IMPROVEMENT - PLANT BIOTECHNOLOGY</p> <p>Application of bio technology in Agriculture - Tissue culture & its significance - Transgenic Plants. Plant Genetic Resources: Collection conservation and exchange-Crop varietal protection-PPV& FR authority and its role.</p>	<p>CURRENT EVENTS</p> <ul style="list-style-type: none"> (i) History - Latest diary of events - National symbols - Profile of States - Eminent personalities and places in news – Sports - Books and authors. (ii) Polity - Political parties and political system in India - Public awareness and General administration - Welfare oriented Government schemes and their utility, Problems in Public Delivery Systems. (iii) Geography - Geographical landmarks. (iv) Economics - Current socio - economic issues. (v) Science - Latest inventions in Science and Technology. <p>APTITUDE AND MENTAL ABILITY - Time and Work</p>



TEST NO	DATE	AGRICULTURE (Forenoon)	GENERAL STUDIES (Afternoon)
9	20.03.2021 SAT	<p>SEED SCIENCE AND TECHNOLOGY</p> <p>SEEDS - Importance of quality seeds in Agriculture - Nucleus, Breeder, foundation, certified and labelled seeds - Seed certification techniques and processing in Tamil Nadu Seed testing.</p> <p>SEED TESTING LABORATORIES ISTA standards for seed testing - seed village concept Seed Act - Seed coating and priming technologies - Seed enhancement technologies.</p>	<p>GEOGRAPHY OF INDIA</p> <p>(i) Location - Physical features - Monsoon, rainfall, weather and climate - Water resources - Rivers in India - Soil, minerals and natural resources - Forest and wildlife - Agricultural pattern.</p> <p>(ii) Transport - Communication.</p> <p>(iii) Social geography - Population density and distribution - Racial, linguistic groups and major tribes.</p> <p>(iv) Natural calamity - Disaster Management - Environmental pollution: Reasons and preventive measures - Climate change - Green energy</p> <p>APTITUDE AND MENTAL ABILITY - Logical Reasoning - Puzzles - Dice - Visual Reasoning - Alpha numeric Reasoning - Number Series.</p>
10	23.03.2021 TUES	<p>CROP PROTECTION PRINCIPLES AND PRACTICES</p> <p>Importance of pest, disease, nematodes and weed management in agriculture – categories of pests, diseases, nematodes and weeds - pest and disease surveillance and forecasting weather on pest and disease incidence - Symptoms of damages and control measures of pest, disease and nematodes of major crops in Tamil Nadu</p>	<p>POLITY + GEOGRAPHY</p> <p>APTITUDE AND MENTAL ABILITY - Simplification – Percentage</p>
11	26.03.2021 FRI	<p>INTEGRATED PEST, DISEASE AND NEMATODE MANAGEMENT IN CROP PRODUCTION</p> <p>Pesticides and their use in IPM - mode of action - Pattern - plant protection equipments and their use - Plant quarantine. Storage pests, disease and nematodes and their management. Importance of biological control in pest, disease and nematode management.</p> <p>WEED MANAGEMENT Major weeds and their control.</p>	<p>ECONOMY + TAMIL NADU HISTORY</p> <p>APTITUDE AND MENTAL ABILITY - Highest Common Factor (HCF) - Lowest Common Multiple (LCM) - Reasoning - Alpha numeric Reasoning - Number Series.</p>



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12	29.03.2021 MON	<p>FARM BUSINESS AND FINANCE MANAGEMENT</p> <p>Farm business management - Principles of farm business management - Types and systems of farms - Classical Production Functions - Cost concepts - Management of resources - Farm Planning and budgeting - Investment analysis - Risk and uncertainties in Agriculture</p>	<p>INM + SCIENCE</p> <p>APTITUDE AND MENTAL ABILITY Ratio and Proportion, Number Series.</p>
13	01.04.2021 THURS	<p>AGRICULTURAL CREDIT SYSTEM IN INDIA</p> <p>Multi credit delivery system - Role of nationalized banks, NABARD and Regional Rural Banks - Lead Bank Scheme - Service area approach - Scale of finance - Credit Worthiness - 3 Rs.Cs and 7Ps of Credit- Crop Insurance - Kisan Credit Cards (KCC) - Agricultural Insurance Company</p>	<p>UNIT VIII + ENVIRONMENT</p> <p>APTITUDE AND MENTAL ABILITY Simple interest - Compound interest</p>
14	04.04.2021 SUN	<p>AGRICULTURAL MARKETING AND MARKET INTELLIGENCE</p> <p>Agricultural marketing - Market structure - Marketing Efficiency - Price Spread - Market Integration - Market Risk-Speculation and hedging</p> <p>MARKET INSTITUTIONS Warehouses and rural Godowns - AGMARK - Cooperatives - Commodity Boards.</p>	<p>UNIT IX + TAMIL NADU CURRENT AFFAIRS</p> <p>APTITUDE AND MENTAL ABILITY Area - Volume - Time and Work.</p>
15	07.04.2021 WED	<p>AGRICULTURAL EXTENSION: PRINCIPLES AND METHODS</p> <p>Extension methods for transfer of technology - AV aids-Communication models - Use of ICT in transfer of technology-Diffusion and adoption.</p>	<p>HISTORY AND CULTURE OF INDIA + CURRENT AFFAIRS</p>



TEST NO	DATE	AGRICULTURE (Forenoon)	GENERAL STUDIES (Afternoon)
		<p>PRE AND POST INDEPENDENCE RURAL DEVELOPMENT INITIATIVES: Key features, strength and weakness of individual programmes - Programme planning and evaluation methods.</p> <p>RURAL SOCIOLOGY Key features of Indian rural system- value system-social change- rural migration.</p> <p>ROLE OF WOMEN IN AGRICULTURE</p>	<p>APTITUDE AND MENTAL ABILITY Logical Reasoning - Puzzles-Dice - Visual Reasoning - Alpha numeric Reasoning</p>
16	09.04.2021 FRI	FULL TEST - FULL PORTION	FULL TEST - FULL PORTION
17	11.04.2021 SUN	FULL TEST - FULL PORTION	FULL TEST - FULL PORTION
18	14.04.2021 WED	MOCK TEST - FULL PORTION	MOCK TEST - FULL PORTION



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