

All Technical Post Main Examination

General Studies

Degree/P.G Degree Standard

100 Items 200 Marks

Unit-I General science :

Physics Universe-General Scientific laws-Scientific instruments-Inventions and discoveries-National scientific laboratories-Science glossary-Mechanics and properties of matter-Physical quantities, standards and units-Force, motion and energy-Electricity and Magnetism, Electronics and Communication -Heat, light and sound-Atomic and nuclear physics-Solid State Physics – Spectroscopy-Geophysics - Astronomy and space science

Chemistry Elements and Compounds-Acids, bases and salts-Oxidation and reduction-Chemistry of ores and metals-Carbon, nitrogen and their compounds-Fertilizers, pesticides, insecticides-Biochemistry and biotechnology-Electrochemistry-Polymers and plastics

Botany-Main Concepts of life science-The cell-basic unit of life-Classification of living organism-Nutrition and dietetics-Respiration-Excretion of metabolic waste-Bio-communication

Zoology-Blood and blood circulation-Endocrine system-Reproductive system-Genetics the science of heredity-Environment, ecology, health and hygiene, Bio-diversity and its conservation-Human diseases-Communicable diseases and non-communicable diseases- prevention and remedies- Alcoholism and drug abuse-Animals, plants and human life

Unit- II. Current Events

History--Latest diary of events – National--National symbols-Profile of States-Defence, national security and terrorism-World organizations-pacts and summits-Eminent persons & places in news-Sports & games-Books & authors -Awards & honours-Cultural panorama-Latest historical events-- India and its neighbours-- Latest terminology- Appointments-who is who?

Political Science-1. India's foreign policy-2. Latest court verdicts – public opinion-3. Problems in conduct of public elections-4. Political parties and political system in India-5. Public awareness & General administration-6. Role of Voluntary organizations & Govt.,-7. Welfare oriented govt. schemes, their utility

Geography Geographical landmarks-Policy on environment and ecology—

Economics--Current socio-economic problems-New economic policy & govt. sector

Science-Latest inventions on science & technology-Latest discoveries in Health Science-Mass media & communication

Unit-III. Geography

Earth and Universe-Solar system-Atmosphere hydrosphere, lithosphere-Monsoon, rainfall, weather and climate-Water resources --- rivers in India-Soil, minerals & natural resources-Natural vegetation-Forest & wildlife-Agricultural pattern, livestock & fisheries-Transport including Surface transport & communication-Social geography – population-density and distribution-Natural calamities – disaster management-Climate change - impact and consequences - mitigation measures-Pollution Control

Unit-IV. History and culture of India

Pre-historic events--Indus valley civilization-Vedic, Aryan and Sangam age-
Maurya dynasty-Buddhism and Jainism-Guptas, Delhi Sultans, Mughals and
Marathas-Age of Vijayanagaram and the bahmanis-South Indian history-Culture
and Heritage of Tamil people-Advent of European invasion-Expansion and
consolidation of British rule-Effect of British rule on socio-economic factors-
Social reforms and religious movements-India since independence-Characteristics
of Indian culture-Unity in diversity –race, colour, language, custom-India-as
secular state-Organizations for fine arts, dance, drama, music-Growth of
rationalist, Dravidian movement in TN-Political parties and populist schemes-
Prominent personalities in the various spheres – Arts, Science, literature and
Philosophy – Mother Teresa, Swami Vivekananda, Pandit Ravishankar ,
M.S.Subbulakshmi, Rukmani Arundel and J.Krishnamoorthy etc.

Unit-V INDIAN POLITY

Constitution of India-. Preamble to the constitution- Salient features of
constitution- Union, State and territory- Citizenship-rights amend duties-
Fundamental rights- Fundamental duties- Human rights charter- Union legislature
– Parliament- State executive- State Legislature – assembly- Status of Jammu &
Kashmir- Local government – panchayat raj – Tamil Nadu- Judiciary in India –
Rule of law/Due process of law- Indian federalism – center – state relations-
Emergency provisions- Civil services in India- Administrative challenges in a
welfare state- Complexities of district administration- Elections - Election
Commission Union and State. Official language and Schedule-VIII- Amendments
to constitution- Schedules to constitution-. Administrative reforms & tribunals-
Corruption in public life- Anti-corruption measures – Central Vigilance
Commission, lok-adalats, Ombudsman, - Comptroller and Auditor General of

India- Right to information - Central and State Commission- Empowerment of women- Voluntary organizations and public grievances Redressal- Consumer protection forms

Unit- VI. Indian economy

Nature of Indian economy-Need for economic planning-Five-year plan models-an assessment-Land reforms & agriculture-Application of science in agriculture Industrial growth-Capital formation and investment-Role of public sector & disinvestment-Development of infrastructure- National income- Public finance & fiscal policy- Price policy & public distribution- Banking, money & monetary policy- Role of Foreign Direct Investment (FDI)- WTO-globalization & privatization- Rural welfare oriented programmes- Social sector problems – population, education, health, employment, poverty-HRD – sustainable economic growth- Economic trends in Tamil Nadu -Energy Different sources and development- Finance Commission -Planning Commission- National Development Council

Unit-VI. Indian national movement

National renaissance-Early uprising against British rule-1857 Revolt- Indian National Congress-Emergence of national leaders-Gandhi, Nehru, Tagore, Nethaji -Growth of militant movements -Different modes of agitations-Era of different Acts & Pacts-World war & final phase struggle-Communalism led to partition-Role of Tamil Nadu in freedom struggle - Rajaji, VOC, Periyar, Bharathiar & Others-Birth of political parties /political system in India since independence-

Unit-VII. MENTAL ABILITY TESTS

Conversion of information to data-Collection, compilation and presentation of data
- Tables, graphs, diagrams-Parametric representation of data-Analytical
interpretation of data -Simplification-Percentage-Highest Common Factor (HCF)-
Lowest Common Multiple (LCM)-Ratio and Proportion-Simple interest-
Compound interest-Area-Volume-Time and Work-Behavioral ability -Basic terms,
Communications in information technology-Application of Information and
Communication Technology (ICT)- Decision making and problem solving-Logical
Reasoning-Puzzles-Dice-Visual Reasoning-Alpha numeric Reasoning-Number
Series-Logical Number/Alphabetical/Diagrammatic Sequences-