

**All Technical Examination (S.S.L.C. / H.S.c / Diploma Standard)**

**Main Examination**

**Syllabus**

**General Studies (Objective type)**

**200 ITEMS 200 MARKS**

**Unit-I General science :**

**Physics** Nature of Universe-General Scientific laws-Inventions and discoveries-National scientific laboratories-Mechanics and properties of matter-Physical quantities, standards and units-Force, motion and energy-Magnetism, electricity and electronics-Heat, light and sound

**Chemistry**-Elements and Compounds-Acids, bases and salts-Fertilizers, pesticides, insecticides

**Botany**-Main Concepts of life science-Classification of living organism-Nutrition and dietetics-Respiration

**Zoology**-Blood and blood circulation-Reproductive system-Environment, ecology, health and hygiene-Human diseases, prevention and remedies-Animals, plants and human life

**Unit- II. Current Events**

**History** Latest diary of events-national -National symbols-Profile of States-Eminent persons & places in news-Sports & games-Books & authors -Awards & honors'-India and its neighbors

**Political Science**-Problems in conduct of public elections-Political parties and political system in India-Public awareness & General administration-Welfare oriented govt. schemes, their utility- Geography-Geographical landmarks-Economics :Current socio-economic problems Science: Latest inventions on science & technology

### **Unit- III. Geography**

Earth and Universe-Solar system-Monsoon, rainfall, weather & climate-Water resources --- rivers in India-Soil, minerals & natural resources-Forest & wildlife-Agricultural pattern-Transport & communication-Social geography – population-density and distribution-Natural calamities – Disaster Management.

### **Unit\_ IV. History and culture of India and Tamil Nadu**

Indus valley civilization-Guptas, Delhi Sultans, Mughals and Marathas-Age of Vijayanagaram and the bahmanis-South Indian history-Culture and Heritage of Tamil people-India since independence-Characteristics of Indian culture-Unity in diversity –race, colour, language, custom-India-as secular state-Growth of rationalist, Dravidian movement in TN-Political parties and populist schemes

### **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- Local government – panchayat raj – Tamil Nadu- Judiciary in India – Rule of law/Due process of law-. Elections-. Official language and Schedule-VIII-. Corruption in public life-. Anti-corruption measures –CVC, lok-adalats, Ombudsman, CAG- Right to information-Empowerment of women- Consumer protection forms-

### **Unit-VI. INDIAN ECONOMY**

Nature of Indian economy- Five-year plan models-an assessment-Land reforms & agriculture-Application of science in agriculture-Industrial growth-Rural welfare oriented programmers-Social sector problems – population, education, health, employment, poverty-Economic trends in Tamil Nadu

### **Unit-VI. INDIAN NATIONAL MOVEMENT**

National renaissance--Emergence of national leaders-Gandhi, Nehru, Tagore-Different modes of agitations-Role of Tail Nadu in freedom struggle Rajaji, VOC, periyar , Bharathiar & others

### **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 - Logical Reasoning-Puzzles-Dice-Visual Reasoning-Alpha numeric Reasoning-Number Series.