

# FOREST WATCHER (English Medium) SYLLABUS

## 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

## CURRENT EVENTS:

**History** - Latest diary of events - national - National symbols - Profile of States - Eminent persons & places in news - Sports & games - Books & author's - Awards & honor's - 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

**Economics** - Current socio - economic problems

**Science** - Latest inventions on science & technology

## 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.

## 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.

## 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

## 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

## Indian National Movement

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

## APTITUDE & 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.