



**CONTINUOUS ASSESSMENT TEST (CAT)
FOR
TNPSC GROUP I PRELIMINARY 2017- 2018 BATCHES**

Date of the Examination: 29.09.19

Time: 10.00 a.m – 1.00 pm

Scheme of the Examination

200 Questions (150 General Studies + 50 Mental Ability)

NOTE: Registration form for CAT Exam will be uploaded in website (www.appolotraining.com) shortly.

Advantages of Scoring High Marks

- ❖ Access to Reference Hall to read text books and standard books.
- ❖ Spot tests
- ❖ Special Motivational Sessions
- ❖ Mentorship with Toppers
- ❖ Special classes
- ❖ Mentorship -Under the Personal Guidance of R. Sam Rajesswaran, Director, Appolo Study Centre.

SYLLABUS FOR THE TEST

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 & communications - 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, prevention and remedies- Communicable diseases and non- communicable diseases- Alcoholism and drug abuse- Animals, plants and human life.

UNIT - II: CURRENT EVENTS (JULY, AUGUST 2019)

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 - India's foreign policy - Latest court verdicts - public opinion - Problems in conduct of public elections- Political parties and political system in India- Public awareness & General administration- Role of Voluntary organizations & Govt.,- 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 & 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 - 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 - VII: INDIAN NATIONAL MOVEMENT

National renaissance- Early uprising against British rule- 1857 Revolt- Indian National Congress - Emergence of national leaders- Gandhi, Nehru, Tagore, Netaji - 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 - VIII : APTITUDE & MENTAL ABILITY TEST

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.

REFERENCE BOOKS

- ❖ Samacheer School Books - Old and New
- ❖ Freedom Struggle - K. Venkatesan
- ❖ Contemporary India - K. Venkatesan
- ❖ Indian Polity by Laxmikanth
- ❖ Mental Ability - 6-10th Std Old and New Samacheer Books
- ❖ General Science, Geography and Economics - 6 - 12th Std Old and New Samacheer Books
- ❖ General Knowledge - Arihant and Lucent
- ❖ Current Affairs - Appolo Website

