

SYLLABUS

Group VII (Executive Officer, Grade III) – MAIN EXAMINATION

(Objective type) (Degree Standard)

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- Electricity and Magnetism, -Heat, light and sound-Atomic and nuclear physics

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

Botany-Main Concepts of life science-The cell-basic unit of life-Classification of living organism-Nutrition and dietetics-Respiration

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

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 & honours- Latest historical events-- India and its neighbours-Appointments-who is who?

Political Science- 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 including Surface transport & communication-Social geography – population-density and distribution-Natural calamities – disaster management

Unit-IV. History and culture of India

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 - Local government – panchayat raj – Tamil Nadu- Judiciary in India – Rule of law/Due process of law- Indian federalism – center – state relations- Emergency provisions- Elections - Election Commission Union and State- 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

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- 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

Early uprising against British rule-1857 Revolt- Indian National Congress- Emergence of national leaders-Gandhi, Nehru, Tagore, Nethaji -Growth of militant

movements - 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- 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- Decision making and problem solving

Logical Reasoning-Puzzles-Visual Reasoning-Alpha numeric Reasoning-Number Series-Logical Number/Alphabetical/Diagrammatic Sequences-

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,e;Jkjk; + irtKk; itztKk;

,e;Jkjk;

1. ,e;Jkjk; - Njhw;wKk; tuyhWk;
2. Ntjq;fs;
3. cgepljq;fs;
4. ,e;J kj cl;gphpTfs; (mWtifr; rkaq;fs;)
5. ,jpfhrk; Guhzq;fs;
6. mj;ijt tprpl;lhj;itj, Jitj rpj;jhe;jq;fs;

7. flTs; - Xk;
8. cyfj;Njhw;wk;
9. ke;jpuq;fs;
10. Md;khf;fs;
11. kuzj;jpd; gpd; kdpjd; epiy
12. Kj;jpnewp (Kj;jpkhh;f;fk;
13. FU
14. Myak;, Mya mikg;G, Mya topghL
15. jpU%yh;
16. G+ir
17. rpj;jh;fs;
18. rhj;jpuq;fs;
19. jpUf;Nfhapy; jpUtpohf;fs;
20. gz;biffs;
21. ,e;Jfspd; rlq;F Kiwfs;22. Nghw;wpfs; Njhj;jpukhiy
22. Nfhapw;fiy (rpw;gq;fis guhkhpj;jy;)
23. Nfhapy; jpUNkdpfs;
24. Mfkq;fs;
25. gl;bdj;jh;
26. jhAkhdt;
27. gf;jp ,af;fk;
28. mz;ikf; fhy mUshsh;fs;. ,uhkfpU\;zguk cwk;rh;,
tpNtfhde;jh;, ghk;gd; Rthkpfs;
29. mUl;gpufhr ts;syhh;

irtk;

1. irtKk; rptKk;

2. jkpOk;, irtKk;
3. irt ,yf;faKk;, tuyhWk;
4. Kg;nghUs; ,ay;G
5. vz; Fzq;fs;
6. topghL
7. rpt jPf;if
8. jpUj;njhz;lh;Guhzk; (nghpaGuhzk;)
9. irt FUKhh;fs; (irt Mr;rhhpah;fs;)
10. gd;dpU jpUKiwfs; - mwpKfk;
11. irt rpj;jhe;j rhj;jpuq;fs;
12. goe;jkpo; ,yf;fpaq;fspy; rptd;

itztk;

1. itztk;
2. itzt ,yf;fpaKk;, tuyhWk;
3. MfkKk; ehuhazDk;
4. fPijapd cl;nghUs;
5. Mo;thh;fspd; tuyhW
6. ek;kho;thUk; itztKk;
7. ,uhkhD[Uk; Nfhl;ghLfSk;
8. itzt Mr;rhhpah;fs;
9. tp\;Z GuhzKk; tp\;Ztpd; Nkd;ikAk;
10. ehypapu jpt;ag;gpuge;jk; - mwpKfk;
11. goe;jkpo; ,yf;fpaq;fspy; jpUkhy;
12. itzt ciuahrphpah;fs;