



Manidhanaeyam Free IAS Academy

(Run by Manidha Naeyam Charitable Trust)
28, 1st Main Road, CIT Nagar, Chennai - 35 (HO).
Mail Address: manidhanaeyam@gmail.com
Website: www.mntfreeias.com



READING LIST

TNPSC - GROUP - II & IIA- PRELIMINARY - GENERAL STUDIES PAPER (OBJECTIVE TYPE)

S.NO	TOPIC	SOURCE
Unit - I - General Science		
1)	Scientific Knowledge and Scientific Temper	6 th to 12 th science book & Any GK book
2)	Power of Reasoning	6 th to 12 th science book & Any GK book
3)	Rote Learning vs Conceptual Learning	6 th to 12 th science book & Any GK book
4)	Science as a tool to understand the Past, Present and Future	6 th to 12 th science book & Any GK book
5)	Nature of Universe	6 th term 1 : Social Science – Unit 1 : Universe and Solar System 9 th full book : Science – Unit 9 : Universe 11 th Geography : Unit 2 – The Solar System
6)	General Scientific Laws	6 th Term 1- Unit - 2 6 th Term 2- Unit - 1,2 6 th Term 3- Unit - 1 7 th Term 1- Unit - 2,3 7 th Term 2- Unit - 1,2 8 th - Unit - 2,3,4,7 9 th - Unit - 2,6,7,8 10 th - Unit - 1,2,3,4,5
7)	Mechanics and Properties of Matter	6 th term 1: Unit 3 – Matter around us 7 th term 1: Unit 3 - Matter around us 8 th full book : Unit 4 –Matter 9 th full book : Unit 10- Matter around us 11 th Volume 2 : Physics – Unit 7 : Properties of Matter
8)	Force , Motion and Energy	6 th term 1 : unit 2 – Force and Motion 7 th term 1 : unit 2 – Force and Motion 8 th full book : unit 2 – Force and Pressure 9 th full book : unit 2 - Motion 10 th full book : unit 1- Laws of Motion 11 th volume 1 : unit 2 – Kinematics Unit 3 – Laws of motion Unit 5 – Motion of system of particles and Rigid bodies 11 th volume 2 : unit 6 – Gravitation Unit 10- Oscillations

9)	Heat , Light and Sound	<p style="text-align: center;">HEAT</p> 6 th term 2 : Unit 1 – Heat 7 th term 2: Unit 1 – Heat and Temperature 8 th full book : Unit 4 - Heat 9 th full book : Unit 7 – Heat 10 th full book : Unit 3 – Thermal Physics 11 th volume 2 : Unit 8 – Heat & Thermodynamics <p style="text-align: center;">LIGHT</p> 8 th full book – Unit 3 : light 9 th full book – Unit 6 : light 10 th full book – Unit 2 : Optics 11 th volume 2 – Unit 11- waves 12 th volume 2 – Unit 6: Optics <p style="text-align: center;">SOUND</p> 9 th full book : Unit 8 – Sound 10 th full book : Unit 5 - Acoustics
10)	Magnetism, Electricity and Electronics	6 th term 2: Unit 2 – Electricity 6 th term 3 : Unit 1 – Magnetism 7 th term 2 : Unit 2 - Electricity 8 th full book : Unit 5 – Electricity, Unit 7: Magnetism 9 th full book : Unit 4 – Electric charge and Electric Current, Unit 5 : Magnetism and Electromagnetism 10 th full book : Unit 4 : Electricity 11 th volume 1 : Unit 4 – Work, Energy, Power 12 th volume 1: Unit 1 – Electrostatics, Unit 2- Current Electricity, Unit 3 – Magnetism and Magnetic Effects of Electric Current, Unit 4 – Electromagnetic Induction & Alternating Current , Unit 5 – Electromagnetic waves.
11)	Elements and Compounds	9 th full book : Unit 12 – Periodic Classification of Elements 10 th full book : Unit 7 – Atoms and Molecules, Unit 8 : Periodic Classification of Elements 11 th Volume 1 – Unit 3 – Periodic Classification of Elements
12)	Acids, Bases and Salts	9 th full book : Unit 14 – Acids , Bases and Salts 10 th full book : Unit 9 – Solutions, Unit 10 : Types of Chemical Reactions
13)	Carbon , Nitrogen and their Compounds	9 th full book : Unit 13 – Chemical Bonding , Unit 15 : Carbon and its Compounds 10 th full book : Unit 11 : Carbon and its Compounds
14)	Main Concepts of Life Science	6 th term 2 : Unit - The Cell 7 th Term 2 : Unit 4 – Cell Biology 10 th full book : Unit 16 – Plant and Animal Harmones 11 th volume 1 : Chapter 6 : Cell – The unit of life Chapter 7 – Cell cycle, Chapter 8 – Bio Molecules
15)	Classification of living organisms	6 th term 1: Unit 4 – The living world of plants , Unit 5 : Living world of animals 7 th term 2 : Unit 5 – Basis of Classification 8 th full book : Unit 16 : Micro Organisms, Unit 17 : Plant Kingdom 9 th full book : Unit 17 – Animal Kingdom 10 th full book : Unit 17 – Reproduction in plants and animals

		11 th Botany : Chapter 1 : Living World, Chapter 2 : Plant Kingdom 11 th Zoology : Chapter 1 : Living World, Chapter 2 : Kingdom Animalia
16)	Nutrition	11 th Botany - Volume 2: Mineral Nutrition. 6 th term 1 : Unit 6 : Health and Hygiene. 7 th term 1 : Unit 6 : Health and Hygiene. 9 th Full Book : Unit 21 : Nutrition and Health. 10 th Full Book : Health and Diseases.
17)	Government policy – organizations on science and technology – role, achievement and impact of science and technology –energy, self sufficiency.	Government website – Ministry of Science and Technology. www.dst.gov.in , www.tanscst.nic.in , www.tnstc.gov.in
18)	Genetics – the science of heredity	10 th full book : Unit 18 : Heredity, Unit 19 : Origin and Evolution of life, Unit 20 : Breeding and Biotechnology 12 th Biology : Chapter 4 : Principles of Inheritance and Variation, Chapter 5 : Molecular Genetics, Chapter 6 : Evolution, Chapter 10 : Applications of Biotechnology 12 th Botany : Chapter 2 : Classical Genetics Chapter 3 : Chromosomal Basis of Inheritance, Chapter 4 : Principles and Processes of Biotechnology, Chapter 5 : Plant Tissue Culture.
19)	Environment, Ecology	6 th term 3 : Unit 4 : Our Environment 9 th full book : Unit 24 : Environmental Science 10 th full book : Unit 22 : Environmental Management 12 th Zoology : Chapter 11 : Organisms and Population Chapter 12 : Bio Diversity and Conservation Chapter 13 : Environmental issues 12 th Botany : Chapter 6 : Principles of Ecology Chapter 7 : Ecosystem Chapter 8 : Environmental issues UGC Environment Book PDF link: https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf
20)	Health and hygiene, human Diseases	6 th term 1 : Unit 6 : Health and Hygiene 7 th term 1 : Unit 6 : Health and Hygiene 9 th full book : Unit 21 : Nutrition and Health 10 th full book : Unit 21: Health and Disease 11 th Zoology : Volume 1 : Chapter 5 : Digestion and Absorption 12 th Zoology : Chapter 7 : Human Health and Diseases Chapter 8 : Immunology Chapter 9 : Microbes in Human Welfare
Unit- II - Current Events		
1)	History - Latest diary of events - National symbols - Profile of States - Eminent personalities and places in news – Sports -Books and authors.	Daily Newspaper, Yojanas, Kurushetra, Tamalarasu, India Year Book, www.newsonair.gov.in , AIR News App Link: prasarbharati.gov.in/mobile-applications/ , www.rajyasabha.nic.in , www.sansadtv.nic.in , www.ddnews.gov.in , www.prasarbharati.gov.in

2)	Polity - Political parties and political system in India - Public awareness and General administration - Welfare oriented Government schemes and their utility, Problems in Public Delivery Systems.	Daily Newspaper, Yojanas, Kurushetra, Tamalarasu, India Year Book, http://www.tamalarasu.org/ / http://yojana.gov.in/ , Government Policy notes, Union and State budget Documents, www.newsonair.gov.in , AIR News App Link: prasarbharati.gov.in/mobile-applications/ , www.rajyasabha.nic.in , www.sansadtv.nic.in , www.ddnews.gov.in , www.prasarbharati.gov.in
3)	Geography - Geographical landmarks.	Daily Newspaper, Yojanas, Kurushetra, Tamalarasu, India Year Book, Government Websites: www.gsi.gov.in , www.mines.gov.in , www.surveyofindia.gov.in , www.bhuvan.nrsc.gov.in , https://dst.gov.in/national-atlas-and-thematic-mapping-organisation , www.earth.google.com , www.portal.natmo.gov.in
4)	Economics - Current socio-economic issues.	Daily Newspaper, Yojanas, Kurushetra, Tamalarasu, India Year Book, Government Websites: www.indiabudget.gov.in/economicsurvey/ , www.censusindia.gov.in , www.dea.gov.in , www.commerce.gov.in , www.mospi.gov.in .
5)	Science - Latest inventions in Science and Technology.	Daily Newspaper, Yojanas, Kurushetra, Tamalarasu, India Year Book, Government Websites: www.dst.gov.in , www.indiascienceandtechnology.gov.in , www.vigyan-prasar.gov.in
6)	Prominent Personalities in various spheres – Arts, Science, Literature and Philosophy.	Daily Newspaper, Yojanas, Kurushetra, Tamalarasu, India Year Book, Government Websites: www.indiaculture.gov.in , www.ndl.iitkgp.ac.in , www.icpr.in , www.publicationsdivision.nic.in & Any Gk Guide

Unit- III - Geography of India

1)	Location – Physical features, Monsoon	6th Std – Term – I – Unit-1, Unit – 2 / Term – III – Unit-1, Unit – 2 7th Std – Term – I – Unit-1, Unit – 2 / Term – III – Unit-1 \ 8th Std – Unit – 7 9th Std – Unit – 1, 2, 3&4 10th Std – Unit – 1, 6 11th Std – Unit – 2, 3, 4, 5 & 6, Government Websites: www.gsi.gov.in , www.bhuvan.nrsc.gov.in
2)	Rainfall, Weather and Climate	8th Std – Unit – 1 9th Std – Unit – 2 10th Std – Unit – 1, Government Websites: www.gsi.gov.in , www.bhuvan.nrsc.gov.in
3)	Water Resources - Rivers in India - Soil, Minerals and Natural Resources, Forest and Wildlife - Agricultural pattern	6th Std – Term – II – Unit-1 7th Std – Term – II – Unit-1 8th Std – Unit – 1, 6 9th Std – Unit – 5, 6 10th Std – Unit – 2, 3, 4 11th Std – Unit – 7 12th Std – Unit – 3, 4, Government Websites: www.gsi.gov.in , www.bhuvan.nrsc.gov.in
4)	Transport – Communication	10th Std -Unit - 5, Government Websites: www.gsi.gov.in , www.bhuvan.nrsc.gov.in

5)	Population density and distribution, Racial, Linguistic Groups and Major Tribes.	7th Std – Term – I – Unit – 3 10th Std -Unit – 5,7 12th Std -Unit – 1,2 & 7, Census Report-2011 & Government Websites: www.gsi.gov.in , www.bhuvan.nrsc.gov.in
6)	Natural calamity – Disaster Management – Environmental pollution: Reasons and preventive measures – Climate change – Green energy.	6th Std – Term – III- Unit – 3 7th Std – Term – III - Unit – 3 8th Std – Unit – 5 9th Std – Unit – 6, 8 11th Std – Unit – 3 12th Std - Unit – 8, Government Websites: www.gsi.gov.in , www.bhuvan.nrsc.gov.in , www.ndma.gov.in , www.tnsdma.tn.gov.in
7)	Solar System – Lithosphere , Hydrosphere , Atmosphere	6th Std – Term – I - Unit – 1, 2 7th Std – Term – I - Unit – 1 8th Std – Unit – 3 9th Std – Unit – 1, 2, 3 & 4 11th Std – Unit – 2, 3, 4, 5 & 6, Government Websites: www.gsi.gov.in , www.bhuvan.nrsc.gov.in
UNIT – IV – History and Culture of India		
1)	Indus Vally Civillzation	6 th Std - Term 1 - Unit-1, 2, & 3 9th Std -Unit – 1, 2 11th Std -Volume -1 – Unit - 1
2)	Guptas	6th Term – III – Unit – 3 6th Std -Term – III – Unit -3 11th Std Volume – I –Unit – 1, 4, 7, 8
3)	Delhi Sultans	7th Std -Term – I – Unit – 2, 4
4)	Mughals and Marathas	7th Std -Term – II – Unit – 2, 3 11th Std – Volume – II – Unit – 14, 15
5)	Age of Vijayanagaram and Bahmani Kingdoms	7th Std -Term – II – Unit – 1 11th Std -Volume – II – Unit – 1, 2
6)	South Indian History	11th Std -Volume – I – Unit - 9
7)	Change and Continuity in the Socio-Cultural History of India.	6th Std-Term – II – Unit – 1,2 9th Std – Unit – 4 10th Std – Unit - 5 11th Std – Volume – I – Unit – 2, 3, 9 – Volume –II – Unit – 13, 19 12th Std - Ethics – Unit - 1
8)	Characteristics of Indian Culture, Unity in Diversity – Race, Language, Custom.	6th Std-Term – I – Civics - Unit – 1 6th Std-Term – II – Civics - Unit – 1 11th Std - Ethics – Unit – 1, 3, 4 12th Std - Ethics – Unit – 1, 2, 3, 6
9)	India as a Secular State, Social Harmony.	8th Term – II – Unit -1

UNIT - V - Indian Polity

1)	Preamble to the Constitution	6th Std Term – 2 -The Constitution of India Civics – Unit – 2, 10th Std Volume –I – Indian Constitution Civics – Unit-I, 12th Std Political Science – Volume –I – Constitution of India. Indian Polity – Any Reference Book & Government Website: www.mpa.gov.in
2)	Salient features of the Constitution	6th Std Term – 2 -The Constitution of India Civics – Unit – 2, 10th Std Volume –I – Indian Constitution Civics – Unit-I, 12th Std Political Science – Volume –I – Constitution of India. Indian Polity – Any Reference Book
3)	Union, State and Union Territory	10th Civics –Unit – I Indian Polity – Any Reference Book
4)	Citizenship	8th Civics – Unit –II, 10th Civics – Unit –I Indian Polity – Any Reference Book & Government Website: www.prsindia.org
5)	Fundamental Rights	10th std-unit -1 12th std –unit 1 Indian Polity – Any Reference Book
6)	Fundamental Duties	6th Std-Term 2-chapter 2 10th Std-Chapter-1 12th Std-12TH Chapter-1 Indian Polity – Any Reference Book
7)	Directive Principles of State Policy	Indian Polity – Any Reference Book
8)	Union Executive	10th Std Civics-Unit-2 12th Std civics –Unit-3 Indian Polity – Any Reference Book

9)	Union Legislature	10th Std Civics-unit-2, 12th Std-Unit- 2 Indian Polity – Any Reference Book & Government Website: www.parliamentofindia.nic.in , www.mpa.gov.in , www.loksabha.nic.in
10)	State Executive	10th Std-Civics-Unit-3 12th Std-Unit-3 Indian Polity – Any Reference Book
11)	State Legislature	10th Std-Civics-Unit-3 12th Std-Unit-2 Indian Polity – Any Reference Book & Government Website: www.assembly.tn.gov.in , www.tnla.neva.gov.in
12)	Local Governments	9th Std-Civics-Term 3-Unit-2 11th Std- Volume 2 – Unit -12 Indian Polity – Any Reference Book
13)	Panchayat Raj	9th Std-Civics-Term 3-Unit-2 11th Std- Volume 2 – Unit -12 Indian Polity – Any Reference Book
14)	Centre - State Relationships.	12th Std- Volume 1- Unit 5 Indian Polity – Any Reference Book & Government Website: www.mha.gov.in
15)	Election	9th Std-Civics-Term 1-Unit-2 Indian Polity – Any Reference Book & Government Website: www.eci.gov.in , www.elections.tn.gov.in
16)	Judiciary in India	12th std Volume 1- Unit-4 10th Volume 1 – Civics- Unit 2,3 Indian Polity – Any Reference Book & Government Website: www.doj.gov.in , www.ecourts.gov.in , www.lawmin.gov.in , www.legalaffairs.gov.in , www.hcmadras.tn.nic.in
17)	Rule of Law, Corruption in Public Life , Lokpal and Lok Ayukta	Indian Polity – Any Reference Book & Prevention of Corruption Act, Government Website: www.lokpal.gov.in
18)	Right to Information	Right to Information Act, Government Website: www.rti.gov.in , www.rtionline.gov.in , https://legislative.gov.in/right-to-information

19)	Empowerment of Women	http://ncw.nic.in/ , Women Empowerment Policy, Acts and Schemes
20)	Consumer Protection Forums	12th Std – Commerce – Unit - 6 , Consumer Protection Act, 2019, Government Website: www.consumeraffairs.nic.in , www.ftc.gov , www.nfsa.gov.in
21)	Human Rights Charter	8th Std – Civics – Unit – 4 9th Std – Civics – Unit – 3 Indian Polity – Any Reference Book & RTI Act and Regulations. NHRC & SHRC Reports. https://nhrc.nic.in/ https://shrc.tn.gov.in/ UNHRC. https://www.ohchr.org/en/hrbodies/hrc/home Recent issues to Human Rights.
UNIT – VI – Indian Economy		
1)	Nature of Indian Economy – Five year plan models - an assessment – Planning Commission and Niti Ayog.	6th Std – Term – II – Unit – 1 7th Std – Term – I – Unit – 1 8th Std – Unit – 2 9th Std – Unit – 1 10th Std – Unit – 1, 2 11th Std – Unit – 7, 8, 9, 10 12th Std – Unit – 1, 2, 11 Government Website: www.niti.gov.in , www.spc.tn.gov.in
2)	Sources of revenue – Reserve Bank of India – Fiscal Policy and Monetary Policy - Finance Commission – Resource sharing between Union and State Governments - Goods and Services Tax	7th Std – Term – I – Unit – 1 8th Std – Unit – 1 9th Std – Unit – 3 10th Std – Unit – 4 12th Std – Unit – 5 , 6 , 9 Government Website: www.dor.gov.in , www.incometax-india.gov.in , www.cbic.gov.in , www.incometax.gov.in , www.doe.gov.in , www.gst.gov.in , www.rbi.org.in
3)	Structure of Indian Economy and Employment	12th – Unit – 7, 8 & Government Websites: www.india-budget.gov.in/economicsurvey/ , www.censusindia.gov.in , www.dea.gov.in , www.commerce.gov.in , www.mospi.gov.in .
4)	Generation, Land Reforms and Agriculture - Application of Science and Technology in Agriculture - Industrial growth - Rural Welfare Oriented Programmes – Social Problems – Population, Education, Health, Employment, Poverty.	9th Std – Unit – 5, 2 10th Std – Unit – 3 Government Websites: www.dst.gov.in , www.india-scienceandtechnology.gov.in , www.vigyanprasar.gov.in , www.desagri.gov.in
5)	Economy of Tamil Nadu	9th Std – Unit – 4 10th Std – Unit – 5 11th Std – Unit - 11 Government Websites: www.desagri.gov.in

UNIT – VII – Indian National Movement

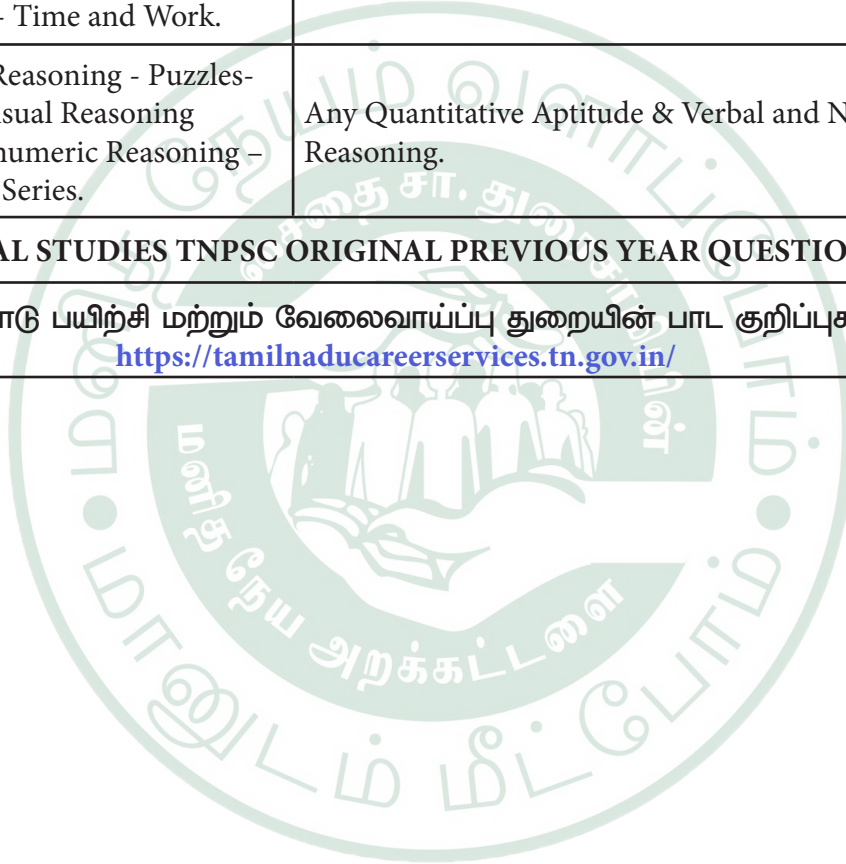
1)	National Renaissance – Early uprising against British rule -Indian National Congress - Emergence of leaders –B.R.Ambedkar, Bhagat Singh, Bharathiar, V.O.Chidambaranar Jawaharlal Nehru, Kamarajar, Mahatma Gandhi, Maulana Abul Kalam Azad, Thanthai Periyar, Rajaji, Subash Chandra Bose, Rabindranath Tagore and others.	8th Std – Unit – 1, 2, 9 10th Std – History - Unit – 5 , 7, 8 12th Std – History – Unit – 1, 2 Any Stan
2)	Different modes of Agitation: Growth of Satyagraha and Militant Movements.	11th Std – History – Unit – 16, 17, 18 12th Std – History – Unit – 3, 4, 5
3)	Communalism and Partition.	12th Std – History – Unit – 6, 7, 8

UNIT – VIII – History, Culture, Heritage and Socio – Political Movements in Tamil Nadu

1)	History of Tamil Society, Archaeological discoveries, Tamil Literature from Sangam Age till contemporary times.	11th Std – History – Unit – 15 11th Std – Ethics – Unit – 1, 2, 3, 4, 5, 6 தமிழ் இலக்கிய பரலாறு – மு.வ. தமிழின்னய்
2)	Thirukkural : a)Significance as a Secular Literature b)Relevance to Eve-ryday Life c)Impact of Thirukkural on Humanity d)Thirukkural and Universal Values - Equality, Human-ism, etc e)Relevance to So-cio-Politico-Economic affairs Philosophical content in Thirukkural	6th Std to 10th Std –(Thirukkural) 11th Std – Political Science – Unit – 15 11th Std – Ethics – Unit – 3, 7 12th Std – Ethics – Unit – 5, 10 திருக்குறள் பரிமேலழகர் உரை
3)	Role of Tamil Nadu in freedom struggle - Early agitations against British Rule - Role of women in freedom struggle.	8th Std – Social Science – Unit – 4 10th Std – Social Science – Unit – 6, 9

4)	Evolution of 19th and 20th Century Socio-Political Movements in Tamil Nadu - Justice Par-ty, Growth of Rational-ism - Self Respect Move-ment, Dravidian Move-ment and Principles un-derlying both these Movements, Contribu-tions of Thanthai Periyar and Perarignar Anna.	10th Std – Social Science – Unit – 5, 6, 9, 10 11th Std – History -Unit – 5, 18, 19 11th Std – Political Science – Unit – 13, 14, 15 12th Std – Ethics – Unit - 7
UNIT – IX – Development Administration in Tamil Nadu		
1)	Human Development Indicators in Tamil Nadu and a comparative assessment across the Country – Impact of Social Reform Movements in the Socio - Economic Development of Tamil Nadu.	9th Std – Unit – 1(Economics) 10th Std – Unit - 1(Economics) 10th Std – Unit – 5 (Geography) 10th Std – Unit – 5, 10(History) 11th Std – Unit – 8
2)	Political parties and Welfare schemes for various sections of people – Rationale behind Reservation Policy and access to Social Resources	7th Std – Civics – Term – I – Unit - 2 9th Std – Political Science – Unit- 2 11th Std – Political Science-Unit – 10 11th Std – Political Science- Unit - 13
3)	Economic trends in Tamil Nadu – Role and impact of social welfare schemes in the Socio - Economic Develop-ment of Tamil Nadu.	10th Std – Economics – Unit – 5 11th Std – Economics – Unit – 11
4)	Social Justice and Social Harmony as the Corner-stones of Socio-Economic Development.	6th Std – Civics – Term – I – Unit – 2 6th Std – Civics –Unit – 3 11th Std – Political Science- Unit - 13
5)	Education and Health Systems in Tamil Nadu.	8th Std – History – Unit – 5 10th Std – Economics – Unit – 3 10th Std – Geography – Unit - 7
6)	Geography of Tamil Nadu and its impact on Economic growth.	7th Std – Geography – Term – II – Unit – 1,2 10th Std – Geography – Unit - 6 Government Websites: www.gsi.gov.in , www.mines.gov.in , www.surveyofindia.gov.in , www.bhuvan.nrsc.gov.in , https://dst.gov.in/national-atlas-and-thematic-mapping-organisation

7)	Achievements of Tamil Nadu in various fields.	Refer – www.tn.gov.in , www.tamilarasu.org , Daily Newspaper,
8)	e-Governance in Tamil Nadu.	Union and State Government Websites- www.meity.gov.in , www.tn.gov.in
UNIT – X – Aptitude and Mental Ability		
1)	Simplification – Percent-age - Highest Common Factor (HCF) -Lowest Common Multiple (LCM) - Ratio and Proportion - Simple interest - Compound interest - Area - Volume - Time and Work.	6th Std to 10th Std Mathematics Books & Any Quantitative Aptitude Book.
2)	Logical Reasoning - Puzzles- Dice - Visual Reasoning - Alpha numeric Reasoning – Number Series.	Any Quantitative Aptitude & Verbal and Non Verbal Reasoning.
ALL GENERAL STUDIES TNPSC ORIGINAL PREVIOUS YEAR QUESTION PAPER		
தமிழ்நாடு பயிற்சி மற்றும் வேலைவாய்ப்பு துறையின் பாட குறிப்புகள்: https://tamilnaducareerservices.tn.gov.in/		





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READING LIST

TNPSC GROUP - II & IIA - MAIN WRITTEN EXAMINATION (DESCRIPTIVE TYPE)

PAPER 1 : MANDATORY TAMIL ELIGIBILITY PAPER : 100 MARKS

PAPER 2 : GENERAL STUDIES : DEGREE STANDARD : 300 MARKS

6 marks : 15 questions - 15 X 6 = 90

12 marks : 10 questions – 10 X 12 = 120

15 marks : 6 questions – 6 X 15 = 90

For all Topics refer Manidhanaeyam Free IAS Academy Study Materials: <https://www.mntfreeias.com>.

S.NO	TOPIC	SOURCE
1)	Nature of Universe	6 th term 1 : Social Science – Unit 1 : Universe and Solar System 9 th full book : Science – Unit 9 : Universe 11 th Geography : Unit 2 –The Solar System
2)	General Scientific Laws	6 th to 12 th scientific laws (concept only)
3)	Scientific Instruments	6 th to 12 th science book & Any GK book
4)	Inventions and Discoveries	6 th to 12 th science book & Any GK book
5)	Physical quantities , Standards and Units	6 th term 1: Unit 1 – Measurements 7 th term 1 : Unit 1 - Measurements 8 th full book : Unit 1 - Measurement 9 th full book : Unit 1 - Measurement 11 th Volume 1 : Physics – Nature of physical World and Measurement
6)	Mechanics and Properties of Matter	6 th term 1: Unit 3 – Matter around us 7 th term 1: Unit 3 - Matter around us 8 th full book : Unit 4 –Matter 9 th full book : Unit 10- Matter around us 11 th Volume 2 : Physics – Unit 7 : Properties of Matter
7)	Force , Motion and Energy	6 th term 1 : Unit 2 – Force and Motion 7 th term 1 : Unit 2 – Force and Motion 8 th full book : Unit 2 – Force and Pressure 9 th full book : Unit 2 _ Motion 10 th full book : Unit 1- Laws of Motion 11 th Volume 1 : Unit 2 – Kinematics Unit 3 – Laws of motion Unit 5 – Motion of system of particles and Rigid bodies 11 th Volume 2 : Unit 6 – Gravitation Unit 10- Oscillations

8)	Heat , Light and Sound	<p style="text-align: center;">HEAT</p> 6 th term 2 : Unit 1 – Heat 7 th term 2: Unit 1 – Heat and Temperature 8 th full book : Unit 4 - Heat 9 th full book : Unit 7 – Heat 10 th full book : Unit 3 – Thermal Physics 11 th volume 2 : Unit 8 – Heat & Thermodynamics <p style="text-align: center;">LIGHT</p> 8 th full book – Unit 3 : light 9 th full book – Unit 6 : light 10 th full book – Unit 2 : Optics 11 th volume 2 – Unit 11- waves 12 th volume 2 – Unit 6: Optics <p style="text-align: center;">SOUND</p> 9 th full book : Unit 8 – Sound 10 th full book : Unit 5 - Acoustics
9)	Magnetism, Electricity and Electronics	6 th term 2: Unit 2 – Electricity 6 th term 3 : Unit 1 – Magnetism 7 th term 2 : Unit 2 - Electricity 8 th full book : Unit 5 – Electricity, Unit 7: Magnetism 9 th full book : Unit 4 – Electric charge and Electric Current, Unit 5 : Magnetism and Electromagnetism 10 th full book : Unit 4 : Electricity 11 th volume 1 : Unit 4 – Work, Energy, Power 12 th volume 1: Unit 1 – Electrostatics, Unit 2- Current Electricity, Unit 3 – Magnetism and Magnetic Effects of Electric Current, Unit 4 – Electromagnetic Induction & Alternating Current , Unit 5 – Electromagnetic waves.
10)	Elements and Compounds	9 th full book : Unit 12 – Periodic Classification of Elements 10 th full book : Unit 7 – Atoms and Molecules Unit 8 : Periodic Classification of Elements 11 th Volume 1 – Unit 3 – Periodic Classification of Elements
11)	Acids, Bases and Salts	9 th full book : Unit 14 – Acids , Bases and Salts 10 th full book : Unit 9 – Solutions, Unit 10 : Types of Chemical Reactions
12)	Carbon , Nitrogen and their Compounds	9 th full book : Unit 13 – Chemical Bonding , Unit 15 : Carbon and its Compounds 10 th full book : Unit 11 : Carbon and its Compounds
13)	Mains Concepts of Life Science – The Cell	6 th term 2 : Unit - The Cell 7 th Term 2 : Unit 4 – Cell Biology 10 th full book : Unit 16 – Plant and Animal Harmones 11 th volume 1 : Chapter 6 : Cell – The unit of life Chapter 7 – Cell cycle Chapter 8 – Bio Molecules
14)	Classification of living organisms	6 th term 1: Unit 4 – The living world of plants , Unit 5 : Living world of animals 7 th term 2 : Unit 5 – Basis of Classification 8 th full book : Unit 16 : Micro Organisms, Unit 17 : Plant Kingdom 9 th full book : Unit 17 – Animal Kingdom 10 th full book : Unit 17 – Reproduction in plants and animals

		11 th Botany : Chapter 1 : Living World, Chapter 2 : Plant Kingdom 11 th Zoology : Chapter 1 : Living World, Chapter 2 : Kingdom Animalia
15)	Nutrition and dietics	11 th Botany - Volume 2: Mineral Nutrition. 6 th term 1 : Unit 6 : Health and Hygiene. 7 th term 1 : Unit 6 : Health and Hygiene. 9 th Full Book : Unit 21 : Nutrition and Health. 10 th Full Book : Health and Diseases.
16)	Respiration , blood, blood circulation, endocrine system	6 th term 2 : Unit 6 : Human Organ System 10 th full book : Unit 14: circulation in animals 11 th Volume 1: Zoology : Unit 5 : Digestion and Absorption, Unit 6 : Respiration, Unit 7 : Body fluid and circulation 11 th Volume 2: Unit 8 – Excretion 8 th full book : Unit 20 : Reaching the age of adolescence
17)	Reproductive System	9 th full book : Unit 20 : Organ system in animals 10 th full book : Unit 13 : Structural Organizations of Animals, Unit 16 : Plant Animal Harmones, Unit 17 : Reproduction in Animals 12 th Zoology : Chapter : Reproduction in Organisms, Chapter 2 : Human Reproduction, Chapter 3 : Reproductive Health
18)	Government policy – organizations on science and technology – role , achievement and impact of science and technology –energy , self sufficiency .	Government website – Ministry of Science and Technology. https://dst.gov.in/
19)	Genetics – the science of heredity	10 th full book : Unit 18 : Heredity, Unit 19 : Origin and Evolution of life, Unit 20 : Breeding and Biotechnology 12 th Biology : Chapter 4 : Principles of Inheritan Variation, Chapter 5 : Molecular Genetics, Chapter 6 : Evolution, Chapter 10 : Applications of Biotechnology 12 th Botany : Chapter 2 : Classical Genetics Chapter 3 : Chromosomal Basis of Inheritance, Chapter 4 : Principles and Processes of Biotechnology, Chapter 5 : Plant Tissue Culture.
20)	Environment , Ecology	6 th term 3 : Unit 4 : Our Environment 9 th full book : Unit 24 : Environmental Science 10 th full book : Unit 22 : Environmental Management 12 th Zoology : Chapter 11 : Organisms and Population Chapter 12 : Bio Diversity and Conservation Chapter 13 : Environmental issues 12 th Botany : Chapter 6 : Principles of Ecology Chapter 7 : Ecosystem Chapter 8 : Environmental issues UGC Environment Book PDF link: https://www.ugc.ac.in/oldpdf/modelcurriculum/env.pdf

21)	Health and hygiene, human diseases, alcoholism, drug abuse.	6 th term 1 : Unit 6 : Health and Hygiene 7 th term 1 : Unit 6 : Health and Hygiene 9 th full book : Unit 21 : Nutrition and Health 10 th full book : Unit 21: Health and Disease 11 th Zoology : Volume 1 : Chapter 5 : Digestion and Absorption 12 th Zoology : Chapter 7 : Human Health and Diseases Chapter 8 : Immunology Chapter 9 : Microbes in Human Welfare
22)	Computer science and advancement	6 th term 1 : Unit 7 : Computer – An Introduction 6 th term 2 : Unit 7 : Parts of Computer 6 th term 3 : Unit 6 : Hardware and Software 7 th term 1 : Unit 7 : Visual Communication 7 th term 3 : Unit 6 : Visual Communication

ADMINISTRATION OF UNION AND STATES WITH SPECIAL REFERENCE TO TAMILNADU

1)	State Government Organisation	SCERT : 7 th , 8 th & 10 th : Social Science(Civics). 12 th Political Science: Volume-2
2)	District Administration	8 th : Social Science Any Prescribed Indian Administration Book. www.tn.gov.in
3)	Industrial map of Tamilnadu	9 th Social Science (old), 8 th : Social Science (old). 10 th Social Science : New version. 11 th Economics.
4)	Role of Recruitment Agencies	Scert : 8 th Social Science , 12 th Political Science.
5)	State Finance , Budget, Financial Administration.	12 th Political Science - Volume - 2. 12 th Economics.
6)	Use of IT in Administration , E-governance in state	E-governance Module Released by TN govt. https://tnega.tn.gov.in/
7)	Natural calamities – Disaster management	8 th Social Science , 9 th Social Science, 11 th Geography.
8)	Government schemes	Daily Newspaper, Yojanas, Kurushetra, Tamalarasu, YearBook. http://www.tamilarasu.org/ / http://yojana.gov.in/
9)	Relation between State and Union	10 th -Civics, 12 th Political Science - Volume -II
10)	Public Services	12 th Political Science - Volume -II
11)	Social Welfare	Ministry of Social Welfare. 10 th - Social Science : History and Economics.
12)	Schemes of Indian government	Current Affairs, Year Book, Relevant Websites.

SOCIO – ECONOMIC ISSUES IN INDIA / TAMILNADU

1)	Population Exploitation	11 th -Economics Census in india : 2001 and 2011 Census TN : 2001 & 2011 UN Organizations Reports related to population. Central and State Schemes on population. National Population Policy 2000 Any prescribed books on Social issues or social Problems. Recent current affairs related population issues.
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2)	Unemployment issues in India and Tamilnadu	9 th & 11 th - Economics. Employment Policies in five year plannings. Central and State Schemes related to be employed. Importance of MSME sectors, industrial sectors. MGNREGa. Recent Reports and indices in unemployment. Any prescribed books on Social issues or social Problems.
3)	Child Labour	Children safety related acts and articles in Indian constitution. Importance of UNICEF. Schemes related to childrens education ,child abuses. Child helpline. Importance of NGOs and awareness programs in schools, communities. CSR : India, TN. Reports and indices. Any prescribed books on Social issues or social Problems.
4)	Poverty	11 th - Economics. Five year plans. Acts and schemes to eradicate poverty. Commissions on controlling poverty. TN schemes and special acts related to poverty. Census : Indian and TN. Any prescribed books on Social issues or social Problems.
5)	Sanitation : rural and urban	11 th - Economics. WHO's WASH policy. Schemes and commissions for sanitation. Swachh Bharath Scheme. Bio Toilets. Smart Cities. Scavengers Rehabilitation Act. Biomedical Waste Generation. Devices used in cleaning.(Robots) Ministry of Jal Shakthi. Any prescribed books on Social Issues or Social Problems.
6)	Corruption in public life – anticorruption measures , CVC, lokadalats, Ombudsman,CAG.	Any prescribed books on Indian polity or Indian Constitution. Acts and Articles related to Anti - Corruption. Any prescribed books on Social Issues or Social Problems.
7)	Illiteracy	Literacy rate : India and TN Education Schemes and Acts. Education system from ancient till contemporary times. Articles in the importance of education. National educational policy. Commissions on education. Mobile applications and its usage in pandemic situations. Importance of EDUSAT. Any prescribed books on Social Issues or Social Problems.
8)	Women Empowerment	Census 2001 & 2011: India , TN. Acts safeguarding Women Empowerment. International Organizations on Women Empowerment. Five year plans. Reports and Indices. Constitutional Provisions. Women leaders from ancient till contemporary.

		Women in various sectors. Helplines , Applications , Portals for women. Ministry of Social Welfare and Nutritious Meal Department. State / National Women Commission Reports. Union and State schemes and its importance. Ministry of Women and Child Deveopment. Any prescribed books on Social Issues or social Problems.
9)	Impact of violence in the growth of nation – religious violence, terrorism and communal violence.	8 th - Civics. Acts and regulations against terrorism. Concept of secularism. Attacks in India. Religious rights. National Security Act.
10)	Human Rights Issues, Right to Information	Any prescribed books on Indian Polity or Indian Constitution. RTI Act and Regulations. NHRC & SHRC Reports. https://nhrc.nic.in/ https://shrc.tn.gov.in/ UNHRC. https://www.ohchr.org/en/hrbodies/hrc/home Recent issues related to Human Rights.
11)	Education - Linkage between Education and Economic Growth	SCERT : 8 th Social Science Book ,12 th Economics. Education system during british period. Educational reforms. National Education Policy - 2020: Tamil- https://www.education.gov.in/sites/upload_files/mhrd/files/nep/2020/tamil.pdf English- https://www.education.gov.in/en/relevant-documents
12)	Employment guarantee scheme	9 th - Economics. Schemes, Yojanas, Five Year Plans. Self help groups. Entrepreneurship programs like startup India, Make in India.
13)	Role of NGOs in social welfare – govt policy on health	National health policy. Health schemes. Role of NGOs . Ministry of Social Welfare. https://main.mohfw.gov.in/
தமிழ்நாடு பயிற்சி மற்றும் வேலைவாய்ப்பு துறையின் பாட குறிப்புகள்: https://tamilnaducareerservices.tn.gov.in/		