

Tamil Nadu Uniformed Services Recruitment Board(TNUSRB) declared the recruitment for the posts of Sub Inspector of Police. Students searching for TN Police SI Study Materials PDF is available for free download in our [ENTRI Learning App](#). The syllabus is crucial for any type of exam. For TNUSRB SI Syllabus 2022 is also available and as well as Topic wise study. Here we examined the General Science study notes for TNUSRB SI Exam.

## General Science Notes for TNUSRB SI Exam

In this article, we will try to place all the relevant topics that come under General Science for the exam of TNUSRB Sub Inspector posts. Candidates Can visit our ENTRI App for the Exam Syllabus, Exam Pattern & Selection Process of TN Police Sub-Inspector Posts. Here we are sharing the detailed information regarding the General Science topic. Candidates Can Check Detailed notes on other topics related to the TNUSRB SI exam from the ENTRI Learning App.

General Science:

### *Physics*

- **SI Units and Derived Units**
- **List of scientific laws**
- **List of Scientific Instruments and Inventors**
- **Physics Important Terms and their Definitions**
- **Important Facts of Magnetism**
- **List of Nuclear Power Stations in India**
- **List of Space Centres in India**

### *Chemistry*

- **Chemical Elements and their Symbols**
- **Acids and Bases**
- **Oxidation and Reduction**
- **Fertilizers**

### *Botany*

- **Plant Cell And Animal Cell**
- **Medical Aspects of Plants**
- **Respiratory System In Plants**

### *Zoology*

- **Blood and Its Circulation**
- **Genetics and Reproduction**
- **Sources of Nutrients and Deficiency Diseases**
- **Human Disease and Prevention**

**[To Get TNUSRB SI Exam Complete Study Materials, Download the ENTRI Learning App!](#)**

*LIST OF SCIENTIFIC INSTRUMENTS AND THEIR USES*

Scientific Instruments are used for characterizing, measuring, and recording physical quantities.

*Inventions and Discoveries*

*Scientists and their Contributions*

*Human Disease and Prevention:*

Diseases can be simply defined as a disruption in the normal functioning of the body, among which few affect only the particular organ system and some affect the whole body of an organism. Numerous diseases vary in their signs, symptoms, and causes. Pathology is the branch of medicine that mainly deals with the study of disease, the nature of diseases, its cure, diagnosis, etc.

*Human Physiology*

*Diet and Balanced diet*

*Human Genetics:*

Genetics is the science that deals with the mechanisms liable for similarities and differences among closely related species. The word 'genetic' was coined by W.Batesmanin in 1905. It is emanated from the Greek word 'genesis' indicating grow into or to become. So, genetic is the study of heredity and hereditary variations it is the study of the transmission of body features: ie, similarities and difference, from parents to offspring and the laws associated with this transmission.

*Animal Kingdom*

*Mammals*

Mammals are the vertebrates within the class **Mammalia** a clade of endothermic amniotes determined from reptiles (including birds) by the possession of a neocortex (a region of the brain), hair, three middle ear bones, and mammary glands. Females of all mammal species nurse their immature with milk, perspired from the mammary glands.

*Birds*

*Environment and Ecology*

*Elements and Compounds*

<b>Symbol</b>	<b>Element</b>
H	Hydrogen
He	Helium
Li	Lithium
Be	Beryllium
B	Boron

<b>Symbol</b>	<b>Element</b>
C	Carbon
N	Nitrogen
O	Oxygen
F	Fluorine
Ne	Neon
Na	Sodium
Mg	Magnesium
Al	Aluminium
Si	Silicon
P	Phosphorus
S	Sulfur
Cl	Chlorine
Ar	Argon
K	Potassium
Ca	Calcium
Sc	Scandium
Ti	Titanium
V	Vanadium
Cr	Chromium
Mn	Manganese
Fe	Iron
Co	Cobalt
Ni	Nickel
Cu	Copper
Zn	Zinc
Ga	Gallium

<b>Symbol</b>	<b>Element</b>
Ge	Germanium
As	Arsenic
Se	Selenium
Br	Bromine
Kr	Krypton
Rb	Rubidium
Sr	Strontium
Y	Yttrium
Zr	Zirconium
Nb	Niobium
Mo	Molybdenum
Tc	Technetium
Ru	Ruthenium
Rh	Rhodium
Pd	Palladium
Ag	Silver
Cd	Cadmium
In	Indium
Sn	Tin
Sb	Antimony
Te	Tellurium
I	Iodine
Xe	Xenon
Cs	Caesium
Ba	Barium
La	Lanthanum

<b>Symbol</b>	<b>Element</b>
Ce	Cerium
Pr	Praseodymium
Nd	Neodymium
Pm	Promethium
Sm	Samarium
Eu	Europium
Gd	Gadolinium
Tb	Terbium
Dy	Dysprosium
Ho	Holmium
Er	Erbium
Tm	Thulium
Yb	Ytterbium
Lu	Lutetium
Hf	Hafnium
Ta	Tantalum
W	Tungsten
Re	Rhenium
Os	Osmium
Ir	Iridium
Pt	Platinum
Au	Gold
Hg	Mercury
Tl	Thallium
Pb	Lead
Bi	Bismuth

<b>Symbol</b>	<b>Element</b>
Po	Polonium
At	Astatine
Rn	Radon
Fr	Francium
Ra	Radium
Ac	Actinium
Th	Thorium
Pa	Protactinium
U	Uranium
Np	Neptunium
Pu	Plutonium
Am	Americium
Cm	Curium
Bk	Berkelium
Cf	Californium
Es	Einsteinium
Fm	Fermium
Md	Mendelevium
No	Nobelium
Lr	Lawrencium
Rf	Rutherfordium
Db	Dubnium
Sg	Seaborgium
Bh	Bohrium
Hs	Hassium
Mt	Meitnerium

## ENTRI APP

Symbol	Element
Ds	Darmstadtium
Rg	Roentgenium
Cn	Copernicium
Nh	Nihonium
Fl	Flerovium
Mc	Moscovium
Lv	Livermorium
Ts	Tennessee
Og	Oganesson

### *Acids and Bases:*

Acids and Bases are the major categories of chemical compounds. They have specific concrete properties. **Some important acids:**

Acid	Present in
Acetic Acid	Vinegar
Ascorbic Acid	Amla
Citric Acid	Citrus Fruits
Formic Acid	Red ants
Lactic Acid	Curd
Tartaric Acid	Grapes, Ripe Mangoes
Oxalic Acid	Tomato
Malic Acid	Apple
Hydrochloric Acid	Stomach
Butyric Acid	Butter
Stearic Acid	Fat

## [ENTRI APP](#)

Acid	Present in
Amino Acid	Protein
Titanic Acid	Tea

### Some important bases:

Name of Base	Found in
(i) Calcium hydroxide	Lime water
(ii) Ammonium hydroxide	Window cleaner
(iii) Sodium hydroxide	Soap
(iv) Potassium hydroxide	Soap
(v) Magnesium hydroxide	Milk of Magnesia

**[Want to Get More Notes About General Science? Download the ENTRI Learning App Now!](#)**

*Motion, Newton's Laws of motion*

*Thermal Properties of Matter*

*Electricity*

*National Laboratories*

SI No	Name of the Laboratory	Establishment Location
1	Advanced Numerical Research & Analysis Group (ANURAG)	Hyderabad
2	Aerial Delivery Research & Development Establishment (ADRDE)	Agra
3	Vehicles Research & Development Establishment (VRDE)	Ahmednagar
4	Naval Materials Research Laboratory (NMRL)	Ambernath
5	Integrated Test Range (ITR)	Balasore
6	Proof and Experimental Establishment (PXE)	Balasore
7	Aeronautical Development Establishment (ADE)	Bangalore
8	Centre for Airborne Systems (CABS)	Bangalore
9	Centre for Artificial Intelligence & Robotics (CAIR)	Bangalore

## ENTRI APP

<b>Sl No</b>	<b>Name of the Laboratory</b>	<b>Establishment Location</b>
10	Defence Avionics Research Establishment (DARE)	Bangalore
11	Defence Bio-engineering & Electro-medical Laboratory (DEBEL)	Bangalore
12	Gas Turbine Research Establishment (GTRE)	Bangalore
13	Electronics & Radar Development Establishment (LRDE)	Bangalore
14	Microwave Tube Research & Development Centre (MTRDC)	Bangalore
15	Snow and Avalanche Study Establishment (SASE)	Chandigarh
16	Terminal Ballistics Research Laboratory (TBRL)	Chandigarh
17	Combat Vehicles Research & Development Establishment (CVRDE)	Chennai
18	Defence Electronics Applications Laboratory (DEAL)	Dehradun
19	Instruments Research & Development Establishment (IRDE)	Dehradun
20	Centre for Fire, Explosives & Environment Safety (CFEES)	Delhi
21	Defense Institute of Physiology & Allied Sciences (DIPAS)	Delhi
22	Defense Institute of Psychological Research (DIPR)	Delhi
23	Defence Terrain Research Laboratory (DTRL)	Delhi
24	Institute of Nuclear Medicines & Allied Sciences (INMAS)	Delhi
25	Joint Cipher Bureau (JCB)	Delhi
26	Laser Science & Technology Centre (LASTEC)	Delhi
27	Scientific Analysis Group (SAG)	Delhi
	Solid State Physics Laboratory (SSPL)	Delhi
28	Defense Research & Development Establishment (DRDE)	Gwalior
29	Defense Institute of Bio-Energy Research (DIBER)	Haldwani
30	Advanced Systems Laboratory (ASL)	Hyderabad
31	Centre for High Energy Systems and Sciences (CHESS)	Hyderabad

## [ENTRI APP](#)

SI No	Name of the Laboratory	Establishment Location
32	Defense Electronics Research Laboratory (DLRL)	Hyderabad
33	Defense Metallurgical Research Laboratory (DMRL)	Hyderabad
34	Defense Research & Development Laboratory (DRDL)	Hyderabad
35	Research Centre Imarat (RCI)	Hyderabad
36	Defense Laboratory (DL)	Jodhpur
37	Defence Materials & Stores Research & Development Establishment (DMSRDE)	Kanpur
38	Naval Physical & Oceanographic Laboratory (NPOL)	Kochi
39	Defense Institute of High Altitude Research (DIHAR)	Leh
40	Defense Food Research Laboratory (DFRL)	Mysore
41	Armaments Research & Development Establishment (ARDE)	Pune
42	High Energy Materials Research Laboratory (HEMRL)	Pune
43	Research & Development Establishment (Engrs) (R&DE[E])	Pune
44	Defense Research Laboratory (DRL)	Tezpur
45	Naval Science & Technological Laboratory (NSTL)	Visakhapatnam

General Science is one of the important topics in the TNUSRB SI Exam. Here we have discussed the essential details of all sub-topics that come under the main topic of General Science. The candidates can get a detailed idea through the study materials provided here. The candidates can visit our [ENTRI Learning App](#) for pieces of notes regarding the TNUSRB SI Exam 2022.



**WISH TO CRACK  
UPCOMING  
TNUSRB SI EXAM  
2022?**  
PREPARE WITH OUR EXPERTS



- Mock Tests
- Topic Based Video Lessons
- Previous Question Papers

**JOIN NOW**