

NTRO Syllabus

NTRO Technical Asst. Syllabus for General English

- Grammar.
- Verb.
- Unseen Passages.
- Subject-Verb Agreement.
- Vocabulary.
- Error Correction.
- Synonyms.
- Antonyms.
- Fill in the Blanks
- Adverb
- Comprehension
- Sentence Rearrangement
- Articles
- Idioms & Phrases
- Tenses.

NTRO Syllabus for Numerical ability

- Number System
- HCF & LCM
- Problems on Ages
- Percentages
- Ratio and Proportions
- Time and Work
- Mixtures & Allegations
- Simple & Compound Interest
- Simplification
- Profit and Loss
- Decimal & Fractions
- Average
- Time and Distance
- Data Interpretation

NTRO Technical Assistant Syllabus for Reasoning

- Number Series

- Cubes and Dice
- Alphabet Series
- Mirror Images
- Non-Verbal Series
- Blood Relations
- Clocks & Calendars
- Directions
- Number Ranking
- Analogy
- Coding-Decoding
- Decision Making
- Arithmetical Reasoning
- Embedded Figures

National Technical Research Organization Exam Syllabus for General Knowledge

- Indian History.
- Public Administration in India.
- Indian Economy.
- Science & Technology.
- Indian Geography.
- Democratic Federal Division.
- Current Affairs.
- Agriculture.
- Governance.
- Constitution.

NTRO Technical Assistant Syllabus For Computer Science Stream

- Computer
- Operating systems
- Virtual Memory
- File System
- I/O System
- Assemblers
- Fundamentals of programming: FORTUN, C, C++, JAVA
- Database Management Systems
- Internet Technology
- Fundamentals of Geographical Information System (GIS)

National Technical Research Organization Syllabus for Electronics Stream

- Conductors, Semiconductors, Insulators, Magnetic, Passive components, Resistors, Capacitors, and inductors. PN Junction diode, Zener

- PN Junction diode, Zener diode, and Applications. Bipolar Junction Transistors (BJT) Field Effect Transistor (FET) and MOSFET;
- BJT, FET, and MOSFET Biasing and stability, Emitter follower and its applications – Negative feedback transistor
- Biasing and stability
- Emitter follower and its applications – Negative feedback transistor
- Negative feedback transistor applications
- Multistage Amplifiers Feedback, Oscillators, Feedbacks
- Oscillators
- Multivibrators
- Voltage regulation
- Power amplifiers.
- Introduction to Network Theorems
- Voltage and Current relationship in the resistance, inductance, and capacitance
- Resonance
- Digital electronics

NTRO Exam Pattern

<u>Subject/stream</u>	<u>Number of questions</u>	<u>Maximum marks</u>	<u>Duration of examination</u>
Electronics: General Science, Current Affairs, Quantitative Aptitude and Reasoning and concerned subject/stream (i.e. Electronics)	100	400	02 hours
Computer Science: General Science, Current Affairs, Quantitative Aptitude and Reasoning and concerned subject/stream (i.e. Computer Science)	100	400	02 hours

- There will be 100 Multiple Choice Computer Based questions in the examination
- Each question will be of 04 marks
- Candidates need to choose right answer from the 04 choices given
- Total time given to candidates to complete the examination will be 02 hours
- Negative marking will also be there as 01 mark will be deducted for each wrong answers

- No marks will be deducted or given for questions unattempt