

**NHSRCL Exam Pattern & Syllabus for the post of
Senior Executive (Electrical)
advertised against vacancy notice no. 15/2020**

NHSRCL Exam Pattern is an important document according to the exam point of view. With the help of exam pattern, applicant can get an idea of question framing and design.

NHSRCL Exam Pattern

This examination will be conducted on Computer Based Mode. The paper will consist of Multiple-Choice questions of Objective Type. In this paper, question will be asked from General Awareness, General Intelligence, Reasoning, Quantitative Aptitude, General English and Knowledge of Discipline.

- There will a total of 120 question.
- Each question will carry equal mark.
- There will be negative marking for every wrong answer.
- 1/4 Mark will be deducted for wrong answer.
- Duration of paper will be 01 Hours 30 Minutes.

Exam Pattern

Subject	Maximum Question	Maximum Marks	Duration of Paper
General Awareness	15	15	01 Hour 30 Minutes
General English	15	15	
General Intelligence & Reasoning, Quantitative Aptitude	30	30	
Knowledge of Discipline	60	60	

Syllabus for Senior Executive (Electrical) Examination

General Awareness

- Current Affairs (National and International)
- Major Financial / Economic News
- Budget and Functions of NITI Aayog.
- Sports
- Books and Authors
- Awards and Honours
- Science – Inventions and Discoveries
- Abbreviations & Important Days
- General Information about High Speed Railways.

General Intelligence, Reasoning & Quantitative Aptitude

- Spatial Visualization.
- Visual Memory.
- Discrimination.
- Non-verbal series.
- Analogies.
- Observation.
- Coding and Decoding
- Arithmetic Number Series.
- Arithmetical Reasoning.
- Similarities and Differences
- Figures Classification.
- Relationship concepts.
- Spatial Orientation.
- Number System
- HCF, LCM
- Simplification
- Decimal Fractions
- Ratio & proportions
- Unitary Method
- Percentage, Time & Distance
- Time & Work
- Profit & loss
- Average
- Simple & Compound Interest
- Mensuration
- Algebra
- Data Interpretation

General English

- Vocabulary & Grammar
- Antonyms & Synonyms and its correct usage.
- Basics of English Language.
- Sentence structure.
- Reading Comprehension

Electrical Engineering

- Network Analysis.
- Power Electronics & Drives.
- Electronics Devices.
- Electromagnetic Theory.
- Analog and Digital Electronics.
- Electrical Instrumentation.
- Power System Analysis & Control.
- Utilization of Electrical Energy.
- Power System Protection & Switch Gear.
- Control Systems.
- Power Systems.
- Electrical Machines.