

Indian Oil Corporation Limited

IOCL Junior Engineer Assistant Syllabus

Written examination comprises the multiple-choice questions. Three hours are allotted for the examination. The maximum score on the examination is 100. The detailed syllabus for the Junior Engineer Assistant Syllabus is given below.

Written Examination Syllabus

The subject wise information of the syllabus is given below.

General English

- Antonyms
- Synonyms
- Idioms & Phrases
- One-word Substitutions
- Fill in the blanks
- Rearrange sentence parts
- Spotting the error in the sentence
- Vocabulary
- Comprehension Passage

General Studies

- Indian History and Culture
- Science and Technology
- Indian Politics
- Geography of India
- Current Events
- Indian Economy
- General Mental Ability

Electrical

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

Mechanical

- Hydraulics
- Heat Engines
- Structural Engineering
- Fluid Mechanics
- Thermodynamics
- The Strength of Materials
- Theory of Machines
- Manufacturing Technology
- Automobile Engineering
- Industrial Engineering & Management etc

Chemical

- Process Calculations and Thermodynamics
- Chemical Reaction Engineering
- Heat Transfer
- Chemical Technology
- Fluid Mechanics and Mechanical Operations
- Instrumentation and Process Control
- Plant Design and Economics
- Mass Transfer

Instrumentation Engineering

- Basics of Circuits and Measurement Systems
- Transducers
- Digital Electronics
- Signals
- Analog Electronics
- Optical Instrumentation
- Analytical Instrumentation
- Electrical and Electronics Measurements
- Biomedical Instrumentation
- Control Systems and Process Control
- Systems and Communications
- Industrial Instrumentation
- Mechanical Measurement