

IOCL JEA Syllabus - Check IOCL Junior Engineering Assistant, JQCA, Non Executive Exam Pattern @ www.iocl.com

IOCL Non Executive Exam Pattern

IOCL Junior Engineering Assistant, JQCA Exam Pattern

Name Of Subject	Number Of Marks	Time Duration
General Studies	100	3 Hours
English		
Technical <ul style="list-style-type: none">• Electrical• Chemical• Mechanical• Instrumentation		

IOCL JEA Syllabus

English

- Articles.
- Error Correction.
- Conclusion.
- Antonyms.
- Grammar.
- Vocabulary.
- Tenses.
- Verb & Adverb.
- Synonyms.
- Verb Agreement.

- Word Formation.
- Sentence Completion.
- Theme detection.
- Passage Completion.
- Comprehension.
- Idioms & Phrases.
- Fill in the Blanks.

General Studies

- General Science.
- Indian Geography.
- Sports & Games.
- Science & Technology.
- Countries & Currencies.
- Indian National Movement.
- Countries & Capitals.
- Indian Constitution.
- Indian History.
- Current Affairs.
- Current Events – National & International.

Electrical Engineering

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

Chemical Engineering

- Mass Transfer.
- Chemical Reaction Engineering.

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

Instrumentation Engineering

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

Mechanical Engineering

- Balancing of Reciprocating Masses.
- Fluid Mechanics.
- Manufacturing Planning & Control.
- Internal Combustion Engines.
- Measurement & Metrology.
- CAD/CAM/CIM.
- Applied Thermodynamics.
- Industrial Engineering & Enterprise Resources Planning.