

Indian Oil Corporation Limited (IOCL)



IOCL JEA, JQCA Exam Pattern

IOCL Junior Engineering Assistant, JQCA Exam Pattern 2020		
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		
Exam Type: Objective Multiple Choice Questions		

IOCL JEA, JQCA Syllabus

English

- Synonyms.
- Verb Agreement.
- Word Formation.
- Sentence Completion.
- Theme detection.

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- Passage Completion.
- Comprehension.
- Idioms & Phrases.
- Fill in the Blanks.
- Articles.
- Error Correction.
- Conclusion.
- Antonyms.
- Grammar.
- Vocabulary.
- Tenses.
- Verb & Adverb.

General Studies

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

Electrical Engineering

- Electromagnetic Theory.
- Electrical Instrumentation.
- Electrical Machines.
- Power Electronics & Drives.
- Network Analysis.
- Power Systems.
- Utilization of Electrical Energy.

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- Power System Analysis & Control.
- Switch Gear and Protection.
- Electronics Devices.
- Analog and Digital Electronics.
- Control Systems.

Chemical Engineering

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

Indian Oil Corporation JEA, JQCA Syllabus for Instrumentation Engineering

- Basics of Circuits and Measurement Systems.
- Transducers
- Digital Electronics.
- Signals.
- Analog Electronics.
- Optical Instrumentation.
- Analytical Instrumentation
- Electrical and Electronics Measurements.
- <https://www.freshersnow.com/syllabus/>
- Biomedical Instrumentation.
- Control Systems and Process Control.
- Systems and Communications.
- Industrial Instrumentation.
- Mechanical Measurement.

Mechanical Engineering

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