

IOCL Non Executive Exam Pattern

Name Of Subject	Number Of Marks
General Awareness	10 Marks
Numerical Ability	15 Marks
Subject Knowledge	75 Marks

IOCL JEA Syllabus – Topic Wise

General Awareness

- 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.

Numerical Ability

- Calendars Pipes & Cisterns
- Height & Distance
- HCF & LCM
- Clocks
- Probability
- Percentages
- Age Problems
- Volumes
- Areas
- Boats & Streams
- Partnership
- Problems on Trains
- Permutations & Combinations
- Profit & Loss
- Compound Interest
- Averages
- Simple Interest
- Ratio & Proportion
- Time & Work

- Time & Distance

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.

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