

THDC Junior Engineer Trainee (JET) Exam Pattern 2021

Parts	Subject Name	Questions	Marks	Duration
Part – I	General Aptitude and General Awareness	40	40	2 Hours
Part – II	Technical/ Professional knowledge	80	80	
Total		120 Questions	120 Marks	
A negative marking of 0.25 or 1/4 mark will be deducted for every wrong answer				

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THDC JET Syllabus for General Aptitude

- HCF & LCM.
- Mixtures & Allegations.
- Simple & Compound Interest.
- Data Interpretation
- Number System.
- Percentages.
- Time and Work.
- Problems on Ages.
- Profit and Loss.
- Time and Distance.
- Simplification.
- Decimal & Fractions.
- Averages.
- Ratio and Proportions.

THDC Junior Engineer Trainee Syllabus for General Awareness

- Current Events – International, besides National, etc.,
- Sports.
- General Polity.
- Indian Constitution.
- Geography.
- Economic Scenario.
- Scientific Research.
- Culture.
- History.

THDC JET Syllabus for Mechanical

- Specification.
- IC Engine Cooling & Lubrication.

- Rankine cycle of System.
- Boilers.
- Fitting & Accessories.
- Air Compressors & their cycles.
- Refrigeration cycles.
- Hydraulic Turbines.
- Properties & Classification of Fluids.
- Classification of steels.
- Fluid Statics, Measurement of Fluid Pressure.
- The principle of Refrigeration Plant.
- IC Engines Combustion.
- Air standard Cycles for IC Engines.
- Properties of Pure Substances.
- 1st Law of Thermodynamics.
- Theory of Machines and Machine Design.
- Engineering Mechanics and Strength of Materials.
- 2nd Law of Thermodynamics.
- IC Engine Performance.
- Classification.
- Nozzles & Steam Turbines.
- Fluid kinematics.
- Dynamics of Ideal fluids.
- Centrifugal Pumps.
- Measurement of Flow rate.
- Basic principles.

THDC JET Syllabus for Civil

- The Strength of Materials.
- Engineering Materials.
- Structural Analysis.
- The Design of R.C.C. Structure, steel structure, masonry structure.
- Irrigation Engineering.
- Hydrology.
- Estimation and Coating.
- Surveying.
- Environmental Engineering.
- Construction Equipment, Planning, and Management.
- Geotechnical Engineering.
- Transportation Engineering.
- Concrete Technology.
- Engineering Drawings.
- Construction.

THDC JET Syllabus for Electrical

- Utilization of Electrical Energy
- Power Electronics & Drives.
- Network Theory.
- Basic Electronics
- Analog and Digital Electronics.

- Power Systems.
- AC Fundamentals.
- Measurement and measuring instruments.
- Magnetic Circuit.
- Estimation and costing.
- Electrical Machines.
- Basic Electrical Engineering Concepts.