Mahadiscom Diploma Engineer Trainee Syllabus

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Mahadiscom Diploma Engineer Trainee Exam Pattern

<table>
<thead>
<tr>
<th>SI. No</th>
<th>Name Of the Subjects</th>
<th>Number of Questions</th>
<th>Total Marks</th>
<th>Time Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Professional Knowledge</td>
<td>50</td>
<td>110</td>
<td>2 Hours</td>
</tr>
<tr>
<td>2.</td>
<td>General Knowledge &amp; Reasoning</td>
<td>40</td>
<td>20</td>
<td></td>
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<tr>
<td>3.</td>
<td>Quantitative Aptitude</td>
<td>20</td>
<td>10</td>
<td></td>
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<tr>
<td>4.</td>
<td>Marathi Language</td>
<td>20</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

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Syllabus For Professional Knowledge

Computer Science Engineering:

- Java & JavaScript
- Manageable switch/router & wireless LAN with the network security
- Firewall & anti virus
- UML
- Object-Oriented designing
- Knowledge of C++
- Operating Systems – DOS
- PHP
- MS SQL Server
- Oracle PL_SQL Architecture
- ASP.NET
- ADO.NET
- Proposing and creating architecture and re-usable libraries in.NET
- JavaScript
- Networking with LAN/WAN
- Novel
- Window OS client & server & Linux OS-client & server.
- Web Services
- Window Services
- JSON
- The query will be an added plus
- Grid Computing, Distributed
- OS
- Image processing, Digital signal processing
- Image processing
- VLSI
- Embedded System

**Electrical Engineering:**

- Measurement and measuring instruments.
- Estimation and costing.
- Magnetic Circuit.
- Analog and Digital Electronics.
- Power Systems.
- Electrical Machines.
- Basic Electronics
- Network Theory.
- Basic Electrical Engineering Concepts.
- Utilization of Electrical Energy.
- Power Electronics & Drives.
- AC Fundamentals.

**Mechanical Engineering:**

- Calculus.
- Vector Calculus.
- The Strength of Materials.
- Fluid Mechanics.
- The design of Machine Elements.
- Refrigeration and air-conditioning.
- Thermodynamics.
- Engineering Materials.
- Numerical Methods.
- Probability & Statistics.
- Differential Equations.
- Theory of Machines.

**Syllabus For Reasoning**

- Word Sequence
- Missing Characters
Sequential Output training
Directions
Test on Alphabets
Eligibility Test
Analogy
Series Completion
Verification of truth of the Statement
Situation Reaction Test
Direction Sense Test
Classification
Data Sufficiency
Alpha- Numeric Sequence Puzzle
Puzzle Test
Blood Relations
Coding- Decoding
Assertion and Reasoning
Arithmetical Reasoning
Operations of Mathematics
Venn Diagrams

Syllabus For General Knowledge

- Indian Parliament
- Civics
- Biology
- Countries and Capitals
- Environmental Issues
- Indian Economy
- Current Affairs
- Famous Days & Dates
- Heritage
- Inventions and Discoveries
- Indian History
- Famous Books & Authors
- General Science
- Literature
- Geography of Jammu & Kashmir
- Artists
- Rivers, Lakes, and Seas
- Sports
- Famous Places in India
- Indian Politics
- Tourism
Syllabus For Quantitative Aptitude

- Mensuration
- Quadratic Equations
- Volumes
- Time and Work Partnership
- Percentages
- Profit and Loss
- Odd Man Out and Series
- Simple Interest
- Mixtures and Allegations
- Problems on Trains
- Ratio and Proportion
- Compound Interest
- Indices and Surds
- Averages
- Pipes and Cisterns
- Problems on L.C.M and H.C.F
- Probability
- Simple Equations
- Problems on Numbers
- Areas
- Time and Distance
- Square Root and Cube Root
- Numbers and Ages

Syllabus For the Marathi Language

- Synonyms.
- Antonyms.
- Tenses.
- Cloze Test.
- Grammar.
- Vocabulary.
- Fill in the Blanks.