

## INSTEM Clerk Exam Pattern

Exam Session	Name Of The Subjects	Exam Type
Tier I	Aptitude	Objective Type
	Reasoning	
	English	
	General Knowledge	
	Concerned Subjects	
Tier II	Trade/ Skill/ Computer Proficiency Test	

## INSTEM Clerk Syllabus

### General Knowledge

- International and National Organizations
- Important Days
- Abbreviations
- General Policy
- Indian History
- Indian National Movement
- Sports
- Current Affairs – National and International
- Science and Technology
- Capitals of India
- Indian Economy
- Science – Inventions & Discoveries
- Books and Authors
- Budget and Five Year Plans
- Countries and Capitals
- Awards and Honors

## **Aptitude**

- Clocks
- Compound Interest
- Operations On Numbers
- Time And Distance
- Banker's Discount
- Problems On Trains
- Ratio And Proportion
- Chain Rule
- Stock & Shares
- Time And Work
- Boats And Streams
- Area
- Heights & Distances
- Logarithms
- Volume And Surface Area
- Simplification
- Decimal Fractions
- Races And Games Of Skill
- Profit And Loss
- Problems On Numbers

## **Reasoning**

- Discrimination
- Space Visualization
- Visual Memory
- Clocks
- Analytical Reasoning
- Letter series
- Relationship Concepts
- Figural Classification
- Odd man out
- Symbolic/ Number Classification
- Arithmetical Number Series
- Similarities
- Shapes and Mirror
- Arithmetical Reasoning
- Number series
- Problem Solving
- Coding-Decoding
- Venn diagrams
- Non-Verbal Test
- Semantic Analogy

## **General English**

- Error Correction
- Sentence Improvement
- Substitution
- Error Correction
- Fill in the blanks
- Spotting Errors
- Transformation
- Prepositions
- Sentence Arrangement
- Para Completion
- Synonyms
- Spelling Test
- Joining Sentences
- Substitution
- Passage Completion
- Sentence
- Completion
- Idioms and Phrases

### **Computer Knowledge:**

- Hardware.
- Software.
- Database (introduction).
- Communication (Basic Introduction).
- Networking (LAN, WAN, MAN).
- The Internet (Concept, History, working environment, Application).
- Security Tools, Virus, Hacker.
- MS Windows & MS Office.
- Logic Gates.
- Number System.
- History of Computers

### **Civil Engineering**

- Strength of Materials.
- Project Management and Estimating.
- Building Materials and Construction Practices.
- Environmental Engineering and Pollution Control.
- Hydraulics and Water Resources Engineering.
- Engineering Survey.
- Geotechnical Engineering.
- Urban and Transportation Engineering.
- Structural Analysis.
- Design of Reinforced Concrete, Prestressed Concrete, and Steel Structures.

### **Electrical and Electronics Syllabus**

- Electrical and Electronic Measurements and Instrumentation
- Network-Analysis
- Logic Design
- Artificial Neural Networks
- Digital System Design with VHDL
- Power System Planning
- Mathematics related to Engg.
- Engineering Physics and Chemistry
- Introduction to Computer Programming
- Basic Electronics
- Electronic Circuits
- Electric Power Generation
- Digital Signal Processing
- Computer-Aided Electrical Drawing
- Computer Techniques- in-Power-System-Analysis
- Electrical Power Utilization
- High Voltage Engineering
- Signals and Systems
- Transmission and Distribution
- DC Machines and Synchronous Machines
- Linear IC's and Applications
- Industrial Drives and Applications
- Computer Control of Electrical Drives
- Control Theory
- Power System Analysis and Stability
- Switchgear and Protection

### **Mechanical Engineering**

- Hydraulics machinery
- machine design
- Industrial engineering
- Management
- Thermal engineering
- engineering materials
- Hydraulics
- manufacturing technology
- Engineering mechanics and strength of materials

### **Electrical Engineering**

- Electrical Machines.
- Measurements and Instrumentation.
- Electrical Circuits.
- Electric and Magnetic Fields.
- Renewable Energy Sources and Storage Devices.
- Power Systems.
- Control Systems.

- Digital Processing and Communication.
- Analog and Digital Electronics.
- Power Electronics and Drives.

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