

### KPCL JE & AE Exam Pattern

S.No	Names of the Posts	Name of the Topics	Maximum Marks	Total Marks
1	Assistant Engineer (AE) (Civil)	Civil Related Subjects	75	100
		General Awareness and Aptitude	25	
2	Junior Engineer (JE) (Electrical and Electronics)	Diploma Electrical and Electronics	75	100
		General Awareness and Aptitude	25	
3	(Diploma) Junior Engineer (JE)	Diploma Civil	75	100
		General Awareness and Aptitude	25	
4	Chemists/Chemical Supervisor	Questions related to Chemists/Chemical Supervisor	75	100
		General Awareness and Aptitude	25	

### KPCL JE Syllabus-Topics Wise

#### Civil Engineering

- Estimation, Costing, and Specifications
- Environmental Studies
- Construction and Project Management
- Reinforced Concrete Structures
- Steel Structures
- Transportation Engineering
- Civil Engineering Materials and Construction
- Fluid Mechanics
- Concrete Technology
- Soil Mechanics and Foundation Engineering
- Environmental Engineering
- PSC Structures
- Bridge Engineering
- Hydrology & Water Resources Engineering

- Surveying
- Solid Mechanics, Structural Analysis
- Hydraulic Structures

### **Electrical Engineering**

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

### **Computer Science and Information Systems**

- Engg. Mathematics
- Electronic Circuits
- Database Management Systems
- Data Structures
- Graph Theory and Combinatory
- Algorithms
- Compiler Design
- Artificial Intelligence
- Fuzzy Logic
- Data Warehousing and Data Mining
- Statistical Methods
- Physics and Chemistry
- Basic Electronics
- Logic Design
- Network Management Systems
- Software Engineering
- Introduction to Computer Programming
- Computer Organization
- Computer Graphics
- Operating Systems
- Digital Signal Processing
- Electronic Circuits
- Indian Economy
- Indian Constitution
- IT & Space etc

- Indian Culture & Heritage
- Indian History
- Science & Technology
- Software testing
- Computer Programming and Programming Languages
- Web-programming
- Microprocessors
- Embedded Computing Systems
- Computer Networks
- Signals and Systems
- Object-Oriented Modeling and Design
- Computer Architecture
- VLSI Design
- Information and Network Security
- Cloud, Grids, and Clusters
- Multimedia Computing
- Neural Network
- Storage Area Networks
- Wireless Networks and Mobile Computing

#### **General Awareness**

- Indian Polity
- Indian Economy
- Indian Constitution
- IT & Space etc
- Indian Culture & Heritage
- Indian History
- Science & Technology
- Current Events – National & International
- Indian Geography

#### **General Aptitude**

- Dimensions
- Visualization Space
- Problems on Ages
- Simplification
- Profit & Loss
- Problem Solving
- Time and Work
- Arithmetic Reasoning
- Averages
- Percentages
- Pipes & Cisterns
- Decision Making

- Ratios & Proportions
- Time & Distance
- Areas & Volumes
- Simple Interest & Compound Interest
- Analogies
- Data Interpretation

### **General English/ Kannada**

- Spot the error
- Improvement
- Verbal Comprehension passage
- Synonyms/ Homonyms
- Fill in the blanks
- Sentence structure
- Detecting Misspelt words
- Idioms and phrases
- Adjectives
- passage
- Antonyms
- One word substitutions
- Vocabulary
- Grammar
- Spellings
- Verbs

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