

## PGCIL Field Engineer Exam Pattern

Type of the Exam	Subject Names	No.of Questions	No.of Marks	Duration
Objective Type	Relevant Discipline Questions	50	50	1 Hour
	Aptitude	25	25	
<b>Total</b>		<b>75</b>	<b>75</b>	

## PGCIL Field Supervisor Exam Pattern

Part	Subject Names	No of Questions	No.of Marks	Duration	Type of Exam	Negative Marking
Part – 1	Concern Discipline Questions (Electronics & Communication )	60	60	01 Hour	Objective Type	0.25 Marks
Part – 2	English	25	25			
	Aptitude					
	Reasoning					
	General Awareness					
<b>Total marks</b>		<b>85</b>	<b>85</b>			

# PGCIL Field Engineer Syllabus-Topics Wise

## Electrical

- AC Fundamentals
- Drives
- Measurement and measuring instruments
- Basic Electronics etc
- Network Theory
- Power Systems
- Electrical Machines
- Power Electronics
- Utilization of Electrical energy
- Basic Electrical Engineering Concepts
- Analog and Digital Electronics, Magnetic Circuit

## Civil Engineering

- Surveying.
- Civil Engineering Materials.
- Bridge Architecture
- Bridge Superstructure.
- Engineering Mechanics.
- Fluid Mechanics.
- The design of Structure.
- Transportation Engineering.
- Steel Structures.
- Hydrology etc.
- Elements of Structural Analysis.
- Bridge Engineering.
- Reinforced Concrete Structures.
- Elements of Geotechnical Engineering.
- The strength of Materials.

## Aptitude

- Problems on Trains
- Areas
- Time and Work Partnership
- Odd Man Out
- Probability
- Numbers and Ages
- Ratio and Proportion
- Pipes and Cisterns
- Quadratic Equations
- Simple Interest
- Time and Distance
- Problems on L.C.M and H.C.F
- Averages
- Mixtures and Allegations
- Problems on Numbers
- Compound Interest
- Races and Games
- Simplification and Approximation
- Simple Equations
- Percentages
- Mensuration
- Boats and Streams
- Indices and Surds
- Volumes Profit and Loss
- Permutations and Combinations

## **English**

- Missing Verbs
- Idioms & Phrases
- Antonyms
- Synonyms
- Cloze Test
- Error Spotting/Phrase Replacement
- Fill in the Blanks
- Sentence Corrections
- Grammar
- Sentence Rearrangement
- Phrase Replacement
- Adjectives

- Adverb
- Word Formations
- Verb
- Para Jumbles
- Reading Comprehension
- Meanings
- Unseen Passages
- Articles
- Subject-Verb Agreement

## **General Awareness**

- Countries and Capitals
- Economic Scene
- Scientific Research
- National & International affairs
- History
- Current Events
- Culture
- States & Capitals
- Countries & Currencies
- Daily News
- Art & Culture
- Current GK. Indian Constitution
- Sports & Games
- Geography
- Scientific Research
- Famous Personalities

## **Reasoning**

- Visual memory
- Logical Sequence of Words
- Number Ranking
- Analysis
- Alphabet Series
- Relationship Concepts
- Decision making
- Figure Classification
- Problem Solving

- Verbal and Figure Classification
- Number Ranking
- Directions
- Judgment
- Arithmetical Computation
- Non-Verbal Series
- Coding-Decoding
- Mirror Images
- Arithmetical Reasoning
- Statements & Arguments
- Alphabet Series
- Embedded Figures
- Arithmetical Reasoning
- Number Series
- Arithmetical Number Series
- Discriminating observation
- Analogy

## **Electronics and Communication Engineering**

- Networks.
- Digital circuits.
- Signals and Systems.
- Electronic Devices.
- Engineering Mathematics.
- Analog Circuits.
- Control Systems.
- Electromagnetics.
- Analog & Digital Communications.