**PGCIL Diploma Trainee Syllabus Exam Pattern**

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| --- | --- | --- | --- | --- | --- |
| **Parts** | **Type of Paper** | **Type of Test** | **Exam Duration** | **Total No. of Questions** | **Marks** |
| 1. | Objective Type Questions | Technical Knowledge Test | 02 Hours | 120 | 120 |
| 2. | Aptitude Test | 50 | 50 |

Power Grid Written Exam Syllabus

* Error Correction (Phrase in Bold).
* Synonyms.
* Para Completion.
* Idioms and Phrases.
* Sentence Improvement.
* Spotting Errors.
* Fill in the blanks.
* Error Correction (Underlined Part).
* Antonyms.
* Sentence Arrangement.
* Substitution.
* Active Voice and Passive Voice.
* Prepositions.
* Joining Sentences.
* Sentence Completion.
* Passage Completion.

**Electrical**

* Magnetic Circuit.
* Power Electronics & Drives.
* Estimation and costing.
* Analog and Digital Electronics.
* Basic Electronics
* AC Fundamentals.
* Measurement and measuring instruments.
* The utilization of Electrical Energy.
* Power Systems.
* Network Theory.
* Electrical Machines.
* Basic Electrical Engineering Concept

Civil

* Steel Structures.
* Transportation Engineering.
* Surveying.
* Hydraulic Structures.
* Reinforced Concrete Structures.
* PSC Structures.
* Fluid Mechanics.
* Construction and Project Management.
* Hydrology & Water Resources Engineering.
* Estimation, Costing, and Specifications.
* Bridge Engineering.
* Civil Engineering Materials and Construction.
* Soil Mechanics and Foundation Engineering.
* Environmental Engineering.
* Solid Mechanics, Structural Analysis.
* Concrete Technology
* Environmental Studies

Quantitative Aptitude

* Probability.
* Partnership.
* Decimal Fraction.
* Average.
* Chain Rule.
* Simple Interest.
* Problems on H.C.F and L.C.M.
* Volume and Surface Area.
* Area.
* Races and Games.
* Height and Distance.
* Time and Distance.
* Allegation or Mixture.
* Pipes and Cistern.
* Time and Work.
* Banker’s Discount.
* Surds and Indices.
* Numbers.
* Boats and Streams.
* Problems on Ages.
* Logarithm.
* Stocks and Share.
* Ratio and Proportion.
* Compound Interest.
* Permutation and Combination.
* Square Root and Cube Root.
* Simplification.

 Logical Reasoning

* Cubes and Dice.
* Analogy.
* Non-Verbal Series.
* Decision Making.
* Number Series.
* Directions.
* Arithmetical Reasoning.
* Embedded Figures.
* Alphabet Series.
* Clocks & Calendars.
* Data Interpretation.
* Statements & Arguments
* Coding-Decoding.
* Blood Relations.
* Syllogism.
* Statements & Conclusions.
* Number Ranking.
* Mirror Images.