

### DGVCL Vidyut Sahayak (Junior Assistant) Exam Pattern

Number of Sections	Name of the Subject	Weightage of Percentage
Section – 1	General Knowledge	10%
Section – 2	English Language	20%
Section – 3	Maths & General Science	15%
Section – 4	Analytic & Logical Reasoning	15%
Section – 5	Computer Knowledge	20%
Section – 6	Gujarati Language	20%

### DGVCL Vidyut Sahayak (Junior Engineer) Exam Pattern - IT/ Electrical

Number of Sections	Name of the Subject	Weightage of Percentage
Section – 1	General Knowledge	10%
Section – 2	English Language	10%
Section – 3	I.T./ Electrical Engineering	60%
Section – 4	Computer Knowledge	10%
Section – 5	Gujarati Language & Grammar	10%

### DGVCL Vidyut Sahayak (Junior Engineer) Exam Pattern - Civil

Number of Sections	Name of the Subject	Weightage of Percentage
Section – 1	General Knowledge	10%
Section – 2	English Language	10%
Section – 3	Civil Engineering	60%

Section – 4	Computer Knowledge	10%
Section – 5	Gujarati Language & Grammar	10%

### DGVCL Vidyut Sahayak Syllabus - Topic Wise

#### General Knowledge

- Famous Books & Authors
- Sports
- Indian Politics
- Famous Days & Dates
- Indian Economy
- Geography
- Indian History
- Physics
- Zoology
- Chemistry
- Famous Books & Authors
- Inventions in the World
- Botany
- Indian Parliament

#### English language

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

## **Computer Knowledge**

- Internet.
- MS Word.
- MS-DOS.
- MS Office.
- Windows.
- MS Excel.
- MS PowerPoint.
- Operating Systems.
- The hardware of the Computer.
- Computer Basics.

## **Gujarat language & Grammar:**

- Grammar.
- Vocabulary.
- Comprehension.
- Antonyms.
- Synonyms.
- Tenses.
- Idioms & Phrases.
- Fill in the Blanks.
- Usage of Words.

## **Analytics And Logical Reasoning:**

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

## **DGVCL Vidyut Sahayak Syllabus For Vidyut Sahayak Junior Engineer:**

## **Civil Engineering:**

- Soil Mechanics
- Professional practice
- Hydraulic Structure
- Town Planning
- G.I.S.
- Valuation
- Structural Analysis
- Transportation Engineer 1 & 2 (Road)
- Building Planning
- Quantity Estimation
- Building Code, etc.

## **Electrical Engineering**

- Functions of capacitors & reactors.
- Performance of line fault analysis.
- Measurement of Electrical Power.
- Power Engineering.
- Low Voltage constraint & resolving thereof.
- Distribution Network Installation & load studies.
- Present Power Sector scenario in India and other Electrical Engineering topics etc.
- Switchgear & protection (MC/LV) & LT Switchgear design and testing etc.
- Analysis of Dist. Transformers, Meters & Testing
- Distribution HT/LT Line parameters.
- Non-conventional Energy sources like Wind, Solar, Biomass, etc.

## **IT/ Computer Engineering**

- Networking with LAN/WAN
- Manageable switch/router & wireless LAN with the network security, firewall & anti-virus.
- Operating Systems – Window OS client & server & Linux OS- client & server.
- Knowledge of C++, ASP.NET, ADO.NET, Java & JavaScript, PHP, MS SQL Server
- UML and Object-Oriented designing
- Web Services, Window Services, JSON, JQuery