

**SYLLABUS FOR EXAMINATION (DIRECT RECRUITMENT)**  
**POST: ELECTRICIAN**  
**LEVEL: LEVEL-2 (GROUP-C)**

**STEP 1: WRITTEN TEST (100 MARKS) : 2 Hours**

**(A) LANGUAGE COMPREHENSION(HINDI/ENGLISH) – 25 Marks**

1. Questions out of comprehension passage (short passage)
2. Fill in the blanks, spotting the error
3. Spellings, phrase-idiom, meanings, punctuation
4. Synonyms, antonyms, sentence correction, active- passive voice, direct- indirect speech.

**(B) OFFICE PROCEDURES & TECHNICAL COMPETENCE – 50 Marks**

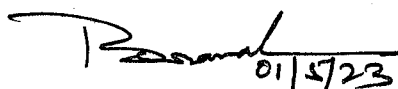
1. Basic knowledge about Constitutional provisions, Electricity Act, Bye-laws.
2. Record keeping, maintaining registers, codes/manuals, online/offline office records
3. Knowledge about various types of tools, plants and measuring instrument used in the electrical system.
3. Knowledge about maintenance procedures, tracking, complaint management.
4. Knowledge on working principle of motor, pump, transformer, ohm's law, ammeter, voltmeter, watt house meter.
5. Series and parallel circuit, type of domestic wiring, two-way wiring, different type of essential test for electrical wiring, single and three phase connection.
6. Various type of motor starter, components and their uses.
7. Working principle of MCB, MCCB, ACB, relays and changeover switches, ELCB .
8. Type of earthing used in the electrical system, method of doing earthing, measurement of earth resistance etc.
9. Various energy conservation device and fixtures used in the building. Knowledge of star rating for light/fan/motors etc.

**(C) SIMPLE ARITHMETIC – 10 Marks**

1. Simplification of fractions, summations, subtraction, multiplication, division
2. Simple interest, compound interest
3. Profit and loss, percentages, work- time- distance, tables and graphs
4. Basic arithmetical reasoning, ratio and proportions, number series, data interpretation

**(D) GENERAL AWARENESS – 15 Marks**

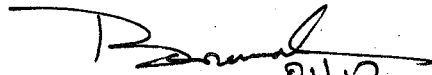
1. India and its states, democracy and governance system, public administration, science, society and technology, earth and environment, educational institutions in India.
2. Current events and of such matters of everyday observation or importance
3. India and its neighbouring countries, art, culture, geography, educational institutions
4. India's ancient and modern history, sports, energy production, non-conventional sources.

  
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**STEP II : SKILL TEST (100 MARKS) : 1 Hours**

The Candidate will have to pass skill test in the respective trade at the time of practical test .  
The practical test will consist of following:

1. Making Domestic wiring circuit for control of light, fan, electric bell, two way switches etc.
2. Making connection for single phase and three phase Motor starter, Single phase **Preventor** ,relay etc.
3. Making cable and termination with **brass gland, thimbling** etc.
4. Making connection for street lighting and control panel with automatic timer and relay connection.
5. Recognition of various type of tools and equipment used in Electrical system.
6. Making modification in the Connection of **Conventional** florescent tube light fixture for direct use of LED **retrofitted** tubes.
7. Fixing MCB, DPMCB, TPMCB,ELCB etc with MCB DB and Changeover switches and their connections etc.
8. Connection of Ammeter, Voltmeter, CTs, Energy Meter etc. recording, reading and maintaining log book.
9. Knowledge of Computer, MS Word, sending e-mail reply, using website for online services and complain management.

  
01/5/23  
EE (secret)