

**Scheme of Examination for Recruitment to the Post of
Assistant Engineer (Electrical) (Direct Recruitment)**

The following shall be the Scheme of Examination, components of written test and its syllabus for recruitment to the post of Assistant Engineer (Electrical) by Direct Recruitment.

A. Scheme of the Examination:

Type	Written Test	Time Duration	Maximum Marks
Paper-1	Objective Type (80 questions)	1.30 hours	80
Paper-2	Descriptive Type	2.30 hours	120
Total Marks: (80 + 120)			200 Marks

B. Components of Written Test:

Paper-1 (Objective Type) – Number of Questions 80, Maximum Marks 80, Time allowed: 1:30 hours)

Note: There shall be no negative marking for wrong answers.

C. Syllabus

Paper -1:

Questions will be designed to test the ability of the candidate's General Studies as under:

Sl. No.	Subject	Syllabus	No. of Questions
	General English	Comprehension, Grammar, Synonyms and Antonyms, Sentence Correction etc.	80
	General Science	General application and understanding of science including matters of everyday observation and experience	
	Current Affairs	Knowledge of significant national and international events	
	History	General understanding of the subject in its social, economic and political aspects	
	Geography	Physical, Social and Economic Geography of the country, including the main features of Indian agricultural and natural resources, etc.	
	Computer Knowledge	MS-Word, Excel, PPT, Tally, Email etc	
	Indian Polity & Economy	Country's political system and Constitution of India, Panchayati Raj, Social systems and economic developments in India, etc.	
	General Mental Ability & Empathy	Reasoning and analytical abilities, Situational analysis, empathy etc.	

Paper-2: (Descriptive Type) – Domain Knowledge: General Engineering (Civil & Structural) Maximum Marks: 120, Time allowed: 2:30 hours

The questions will be designed to test the domain knowledge of the candidate in the following areas:

- Principle and practice of planning, estimation, design, preparation of tender.
- Contract administration, preparation of bills, analysis of rates, extra items, dev. Items, subst. items pertaining to Electrical works.
- CPWD specification, works manual, basic IS codes, sequence of execution of original and maintenance works
- Basic electrical engineering. Preparation, understanding & interpretation of drawings.
- Air conditioning and HVAC.
- Sub-station, earthing systems.
- Installation and maintenance of electrical and HVAC system of campuses.
- Preparation and checking estimates, drawings, analysis of rates, extra items, dev. Items & substituted items, NIT.
- Verification of energy consumption bills received from local Elect. Supply Co., general supervision of Energy meter to see whether they are working satisfactorily
- Familiarity with PWD/CPWD norms and procedures, GFR-2017, e-procurement.
- Knowledge of other related work and procedures.
- Noting & Drafting , E-tender, Procurement of Goods, Works etc.

E. Interview:

The interview/personality test shall be conducted in such a manner that the candidates' suitability for the post is probed among other things, through academic qualifications, relevant experience, extra-curricular activities, general awareness/knowledge, communication and problem solving skills and overall personality etc.