



PAKISTAN AIRPORTS AUTHORITY

RECRUITMENT TEST FOR THE POST OF ASSISTANT DIRECTOR ELECTRICAL EG-01 (TEST COMPOSITION)

Part A: IQ Based Screening Test (45 Minutes)

- Total Questions: 50
- Passing Criteria: 65%

Part B: Subject Test (2 Hours)

- Total Questions: 100

Subject	Topics	Weightage %	Marks
Engineering Mathematics	Linear Algebra, Integration, Differentiation, Complex Numbers, Geometry, Vectors, Word problems, Probability, Permutation, Combinations etc.	20%	20
English	Synonyms, Antonyms, Analogies, Sentence Structure, Grammar Rules, Vocabulary and Word Usage, Reading Comprehension etc.	15%	15
Electrical Fundamentals & Measurement	Ohm's/Kirchhoff's Laws, Thevenin/Norton; AC/DC Circuits, Resonance, Power Factor & Impedance; PMMC/Moving Iron Instruments, Transducers, Accuracy & Errors etc.	10%	10
Power Systems & Machines	Generation, Transmission & Distribution; Load Flow, Fault Analysis & Stability; Principles & Performance of Transformers, Motors & Generators etc.	20%	20
Electrical Protection & Installation	Breakers, Relays, Fuses & Protection Schemes; Earthing & Grounding; Safety Standards & LOTO; Cables (Sizing, Ratings), Wiring & Lighting Design; Panel Layouts & Symbols etc.	15%	15
Electronics & Digital Systems	Power Devices (SCR, MOSFET, IGBT); Rectifiers, Inverters & Choppers; Basic Electronics (Diodes, BJTs, Op-amps); Logic Gates, Boolean Algebra & Computer Network Basics etc.	10%	10
Control Systems & Management	Block Diagrams, Transfer Functions, Feedback Control & Stability; Project Lifecycle, Scheduling (CPM/PERT), Cost, Risk & Quality Management etc.	5%	05
Electrical safety codes and standards	Key principles from standards like NFPA, IEC, OSHA, and relevant local/national electrical codes.	5%	05

QUESTION TYPE: MCQS

LANGUAGE: ENGLISH

Note:

- The candidates will be evaluated on both their general cognitive abilities (Part A) and their knowledge and skills relevant to the Electrical Engineering post. (Part B)
- The aggregate marks of Part A and Part B will only be calculated for candidates who pass Part A.