

Appendix 1

Assistant Engineer (Civil)

Assistant Engineer (Civil) – Syllabus Outline

A. Advanced Technical / Job-Specific Knowledge – 30%

1. Construction Materials & Concrete Technology
2. Structural Engineering
3. Surveying & Geomatics
4. Estimation, Costing & Contracts
5. Soil Mechanics & Foundation Engineering
6. Transportation Engineering
7. Water Supply & Environmental Engineering
8. Tendering & PPRA Rules

B. Professional / General Technical Knowledge – 40%

1. Engineering Drawing & Design
2. Project Management & Supervision
3. AutoCAD & Software Awareness (Theory)
4. Infrastructure Works
5. Office & Administrative Procedures

C. General Aptitude – 30%

1. English
2. Analytical Reasoning
3. Basic & Applied Math
4. General Knowledge

Appendix 2

Assistant Engineer (Electrical)

A. Advanced Technical / Job-Specific Knowledge – 30%

1. Electrical Materials & Components
2. Power Systems
3. Electrical Machines
4. Power Electronics
5. Control Systems
6. Estimation & Costing
7. Renewable & Modern Energy Systems
8. Tendering & PPRA Rules

B. Professional / General Technical Knowledge – 40%

1. Electrical Drawings & Diagrams
2. Project Supervision & Safety
3. Software Awareness (Theory)

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4. Infrastructure Works
5. Office & Administrative Procedures

C. General Aptitude – 30%

1. English
2. Analytical Reasoning
3. Basic & Applied Math
4. General Knowledge

Appendix 3

Assistant Director (P&D)

Job-Specific Knowledge / P&D Professional Skills – 30%

1. Public Sector Development Program (PSDP/ADP)
2. PC-I to PC-V formats and requirements
3. Monitoring & Evaluation (M&E) mechanisms
4. Project planning cycle
5. Financial analysis & cost estimation
6. Punjab Procurement Rules (PPRA)
7. Annual Development Plans and University Development Schemes
8. Infrastructure development concepts
9. Performance indicators and reporting

B. Professional Knowledge – 40%

1. Public administration & governance
2. Project management
3. Report writing skills
4. Office management & communication
5. Data analysis and interpretation
6. Rules of Business, Govt. of the Punjab
7. Budgeting & financial procedures
8. University functioning framework (HEC policies, Statutes overview)

C. General Aptitude – 30%

1. English comprehension and grammar
2. Analytical reasoning
3. Quantitative reasoning (basic mathematics)
4. General knowledge and current affairs

Appendix 4

Sub-Engineer (Civil)

A: Technical / Job-Specific Knowledge – 30%

1. Construction Materials
 2. Building Construction
 3. Surveying
 4. Estimation & Costing
 5. Soil Mechanics
 6. Roads & Pavements
 7. Water Supply & Sanitation
 8. PPRA / Tendering
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B. Professional/General Technical Knowledge – 40%

1. Basic Engineering Drawing
2. Project Supervision
3. Basic AutoCAD Awareness (theory only)
4. University Infrastructure Works
5. Office Procedures

C. General Aptitude – 30%

1. English
2. Analytical Reasoning
3. Basic Math
4. General Knowledge

Appendix 5

Sub-Engineer (Electrical)

A: Job-Specific Skills (30%)

1. Electrical Installations
2. Operation & Maintenance
3. Electrical Machines
4. Power Distribution
5. Safety Codes & Regulations
6. Use of Tools/Equipment

B: Professional Knowledge (40%)

1. Basic Electrical Engineering
2. Electromagnetism
3. Electronics
4. Control Systems
5. Energy Systems
6. Estimation & Costing

C: General Aptitude (30%)

1. English (Vocabulary, Grammar, Comprehension)
2. General Knowledge & Current Affairs
3. Basic Computer Knowledge
4. Analytical/Quantitative Reasoning

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