

## Content Weightages for OGDCL

Sr. No	Core Areas Division	% Weight
1-	Verbal Reasoning	20%
2-	Analytical Reasoning	10%
3-	Quantitative	10%
4-	Subject Related	60%
	<b>Total</b>	<b>100%</b>

Sr. No	Designation of the Post	Criteria and Subject Division	Subject % Weight
<b>01</b>	<b>ASSTT. ENGINEER PETROLEUM (EG-II)OK</b>	<b>As per the advertisement</b>	<b>60%</b>
		Petroleum Engineering	10%
		Fluid Mechanics	10%
		Reservoir Engineering	10%
		Drilling Engineering	10%
		Principles of Enhanced Oil Recovery	10%
		Well Logging & Testing	10%
<b>02</b>	<b>ASSTT. ENGINEER CHEMICAL (EG-II)</b>	<b>As per the advertisement</b>	<b>60%</b>
		Chemical Process Principles	10%
		Chemical Engineering Thermodynamics	10%
		Heat Transfer	10%
		Mass Transfer	10%
		Chemical Reaction engineering	10%
<b>03</b>	<b>ASSTT. ENGINEER ELECTRICAL (EG-II)</b>	<b>As per the advertisement</b>	<b>60%</b>
		Fundamentals of Electrical Engineering	20%
		Power	10%
		Control System	10%
		Electronics	10%
		Engineering Maths	10%
<b>04</b>	<b>ASSTT. ENGINEER ELECTRONICS (EG-II)</b>	<b>As per the advertisement</b>	<b>60%</b>
		Fundamentals of Electronics	20%
		Electrical Engineering	10%
		Embedded System	10%
		Control and Robotics	10%
		Communication Systems	10%
<b>05</b>	<b>ASSTT. ENGINEER MECHANICAL (EG-II)</b>	<b>As per the Advertisement</b>	<b>60%</b>
		Thermodynamics	12%
		Fluid Mechanics	12%
		Mechanics of Material	12%
		Engineering Mechanics (Statics & Dynamics)	12%
		Machine Design	12%

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06	ASSTT. ENGINEER CIVIL (EG-II) OK	<b>As per the Advertisement</b>	<b>60%</b>
		Engineering Drawing	06%
		Engineering Mechanics	06%
		Engineering Surveying	06%
		Engineering Material	06%
		Fluid Mechanics	06%
		Structural Analysis	06%
		Civil Work Quantity and Cost Estimations	06%
		Architecture and Town Planning	06%
		Steel Structure	06%
		Irrigation and Water Resources Engineering	06%
07	ASSTT. ENGINEER METALLURGY (EG-II)	<b>As per the advertisement</b>	<b>60%</b>
		Phase Transformations in Solids	06%
		Solidification Processes	06%
		Production of Ferrous and Non-Ferrous Materials	06%
		Deformation Behavior & Failure Analysis	06%
		Corrosion Engineering	06%
		Manufacturing Process	06%
		Engineering Ceramics	06%
		Composite Materials	06%
		Production Management & Quality Assurance	06%
		Characterization Techniques For Materials	06%
08	ASSTT. ENGINEER COMPUTER (EG- II)OK	<b>As per the advertisement</b>	<b>60%</b>
		Programming Fundamentals	06%
		Object Oriented Paradigm	06%
		Discrete Structures	06%
		Data Structures and Algorithms	06%
		Digital Logic and Computer Organization	06%
		Operating Systems	06%
		Database Systems	06%
		Software Engineering & Development	06%
		Computer Communication and Networks	06%
		Computer Architecture & Assembly Language	06%

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09	ASSTT. ENGINEER SOFTWARE (EG-II)OK	<b>As per the advertisement</b>	<b>60%</b>
		Computer Architecture and Organization	06%
		Electronic Devices and Circuits	06%
		Operating Systems	06%
		Discrete Structures	06%
		Data Structures and Algorithms	06%
		Computer Networks and Communications	06%
		Programming Paradigms and Language	06%
		Software Engineering	06%
		Database Management Systems	06%
		Digital Logic Design	06%
10	ASSTT. ENGINEER TELECOM (EG-II)OK	<b>As per the advertisement</b>	<b>60%</b>
		Analog Communication Systems	10%
		Basic Electrical Engineering, Signals & Systems	10%
		Digital Communications	10%
		Data Communication & Computer Network	10%
		Electronics (analog, digitals, and communication electronics)	10%
		Engineering Mathematics	10%
11	ASSTT. OFFICER (FINANCE) (EG-II)OK	<b>As per the Advertisement</b>	<b>60%</b>
		Basic Computer Knowledge (MS-Word, Excel, PowerPoint)	10%
		Financial Management	10%
		Financial Accounting	15%
		Cost Accounting	10%
		Accounting of listed Companies (4 <sup>th</sup> Schedule of Companies Act 2017)	15%
12	ASSTT. OFFICER (SCM) (EG-II)OK	<b>As per the Advertisement</b>	<b>60%</b>
		Basic Computer Knowledge (MS-Excel, MS Word, Power Point)	10%
		Procurement Management	20%
		Supply Chain Management	10%
		Fundamentals of Management	10%
		Business Communication and Report Writing	10%
13	ASSTT. OFFICER (MATERIAL) (EG-II)OK	<b>As per the Advertisement</b>	<b>60%</b>
		Human Resource Management	10%
		Project Management	10%
		Supply Chain Management	10%
		Procurement Management	10%
		Administrative Procedures	10%
		Contract Management	10%

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14	ASSTT. PROGRAM OFFICER (EG-II)	As per the advertisement	60%
		Project Management	12%
		Administrative Procedures	12%
		Business Administration	12%
		Public Administration	12%
		Human Resource Management	12%
15	ASSTT. TRAINING COORDINATOR (EG-II)	As per the advertisement	60%
		Project Management	10%
		Administrative Procedures	10%
		Training and Coordination	20%
		Marketing Strategy	10%
		Human Resource Management	10%
16	ASSTT. OFFICER PDMS (EG-II)	As per the Advertisement	60%
		Basic Computer Knowledge (MS-Word, Excel, PowerPoint)	20%
		Discrete Structure	10%
		Operating System	10%
		Programming Fundamentals	10%
17	ASSTT. OFFICER DATA PROCESSING (EG-II)	As per the advertisement	60%
		Basic Computer Knowledge (MS-Word, Excel, PowerPoint)	20%
		Discrete Structure	10%
		Operating System	10%
		Programming Fundamentals	10%
		Architecture and Organization	10%

Sr. No	Designation of the Post	Criteria and Subject Division	Subject % Weight
18	TECHNICAL OFFICER (ELECTRICAL)	As per the advertisement	60%
		Principle of Electrical Engineering	20%
		DC machines & Batteries	10%

	(EG-II)	Basic Electronics	10%
		Electrical Instruments & Measurements	10%
		AC Machines	10%
19	TECHNICAL OFFICER (MECHANICAL) (EG-II)	<b>As per the advertisement</b>	<b>60%</b>
		Engineering mechanics	12%
		Fluid mechanics and machinery	12%
		Thermodynamics and steam engine	12%
		Theory of mechanics	12%
		Machine Design	12%
20	ASSTT. TECHNICAL OFFICER (ELECTRICAL) (EG-I)	<b>As per the Advertisement</b>	<b>60%</b>
		Electric Symbols	20%
		Current and Voltage	10%
		Introduction to machinery principles	10%
		AC machinery fundamentals	10%
		Basic Electronics	10%
21	ASSTT. TECHNICAL OFFICER (MECHANICAL) (EG-I)	<b>As per the Advertisement</b>	<b>60%</b>
		Applied Mechanics	10%
		Machining Processes	10%
		Mechanics of Materials	10%
		Applied Thermodynamics	10%
		Machine Design	10%
		Fluid Mechanics	10%

Sr. No	Designation of the Post	Criteria and Subject Division	Subject % Weight
22	ASSTT. GEOLOGIST (EG-II)	<b>As per the advertisement</b>	<b>60%</b>
		Structural Geology / Tectonics	06%
		Petroleum Geology	08%
		Principle of Geological Mapping and Correlations	06%

		Sedimentary basin of Pakistan	08%
		Stratigraphy of Pakistan	08%
		Sedimentology	06%
		Source Rock of Pakistan	06%
		Basic Principles of Sequence Stratigraphy	06%
		Petrophysical Logs (Interpretation)	06%
23	ASSTT. GEOPHYSICIST (EG-II)	<b>As per the Advertisement</b>	<b>60%</b>
		Seismic Exploration Technique	20%
		Structure Geology & Tectonics	10%
		Gravity & Megnatic Methods	10%
		Petrophysical Logs (Interpretation)	10%
		Geodesy & Projection System	10%
24	ASSTT. MUD LOGGER (EG-II)	<b>As per the Advertisement</b>	<b>60%</b>
		Structural Geology	09%
		Mineralogy	07%
		Sedimentology	08%
		General Geology	09%
		Stratigraphy of Pakistan	08%
		Petroleum Geology	09%
		Petrophysical Logs	10%
25	ASSTT./ TECHNICAL OFFICER (ELECTRONICS) (EG-I/II)	<b>As per the Advertisement</b>	<b>60%</b>
		Control System	20%
		Basics of Electronics	10%
		AC Supply Scheme	10%
		Basic Principle of Electricity for Electronics	10%
		Magnetism and Electromagnetism	10%

Sr. No	Designation of the Post	Criteria and Subject Division	Subject % Weight
		<b>1- Project Management</b>	10%
		<ul style="list-style-type: none"> <li>5 Phases of project management</li> <li>Number of project management knowledge areas</li> </ul>	(4%) (2%)

26	Assistant Officer (CSR) EG-II	<ul style="list-style-type: none"> <li>Fast tracking and crashing in project management</li> </ul>	(4%)
		<b>2- Fundamentals of Management</b>	10%
		<b>3- Business Communication &amp; Report Writing</b>	10%
		<ul style="list-style-type: none"> <li>7C's of effective communication</li> <li>Elements &amp; features of business communication</li> <li>Classification of report</li> </ul>	(4%) (4%) (2%)
		<b>4- Human Resource Management</b>	10%
		<ul style="list-style-type: none"> <li>Leadership styles</li> <li>Maslow's hierarchy of needs</li> <li>Competency assessment</li> <li>Performance review</li> <li>Performance appraisal, job description, job analysis, job enrichment</li> </ul>	(2%) (2%) (2%) (2%) (2%)
		<b>5- Corporate Social Responsibility</b>	10%
<ul style="list-style-type: none"> <li>Components of CSR by carol Archie</li> <li>Triple bottom line Reporting (People, Planet, Profit)</li> <li>PCA, Royalty, production bonus, own initiative</li> <li>DGPC</li> </ul>	(3%) (3%) (3%) (1%)		
<b>6- Social Change</b>	10%		
<ul style="list-style-type: none"> <li>Sustainable development goals (Goal # 3, 4, 6, 7, 8, 9, 12, 13 &amp; 17)</li> <li>Population growth in Pakistan</li> <li>Gender inequality</li> </ul>	(8%) (1%) (1%)		

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27	ASSTT. ENGINEER MECHATRONICS (EG-II)	<b>As per the Advertisement</b>	<b>60%</b>
		Engineering drawing and graphics	10%
		Thermodynamics	10%
		Manufacturing Processes	10%
		Engineering Statics	10%

	Engineering Dynamics	10%
	Engineering Material	10%