

Tentative Areas for Test for the posts advertised in the National Dailies on April 13,
2025. Test to be conducted by ETEA

1. Areas for the test of Lecturer - Psychology

S. No	Test Areas	Percentage
1.	Abnormal Psychology	10%
2.	Social Psychology	10%
3.	Cognitive Psychology	10%
4.	Experimental Psychology	10%
5.	Basic Psychology	20%
6.	Behavioral Research methods	10%
7.	Therapies in Clinical Psychology	10%
8.	History of Psychology	10%
9.	Applied Statistics	10%

2. Areas for the test of Lecturer - Mathematics (Computational Mathematics)

S. No	Test Areas	Percentage
1.	Numerical Analysis	15%
2.	Linear Algebra	15%
3.	Ordinary Differential Equations	15%
4.	Calculus	15%
5.	Analytical Reasoning	10%
6.	Complex Analysis	10%
7.	Analytical Geometry	10%
8.	English/Analytical Reasoning	10%

3. Areas for the test of Lecturer - Data Science

S. No	Test Areas	Percentage
1.	Fundamentals of Data Science	60%
2.	Probability and Statistics	
3.	Theory of Automata & Formal Languages	
4.	Big Data Analytics	
5.	Data Mining	
6.	Machine Learning	
7.	Data Visualization	
8.	Data Structure	40%
9.	Analysis of Algorithm	
10.	Data Base Systems	
11.	Operating Systems	
12.	Programing Concepts + Object Oriented Programing	

4. Areas for the test of Lecturer - Artificial Intelligence

S. No	Test Areas	Percentage
1.	Machine Learning	60%
2.	Probability and Statistics	
3.	Object Oriented Programming	
4.	Core/Advanced Topics in AI	
5.	Programming Knowledge (Python, R)	

6.	Machine Learning	
7.	Data Visualization	
8.	Data Structure	40%
9.	Analysis of Algorithm	
10.	Data Base Systems	
11.	Operating Systems	
12.	Programing Concepts + Object Oriented Programing	

5. Areas for the test of Lecturer - Software Engineering

S. No	Test Areas	Percentage
1.	Fundamentals of Software Engineering	60%
2.	Software Design	
3.	Programming Skills	
4.	Software Testing and Quality Assurance	
5.	Version Control and Configuration Management	
6.	Human Computer Interaction	
7.	Data Structure	40%
8.	Analysis of Algorithm	
9.	Data Base Systems	
10.	Operating Systems	
11.	Programing Concepts + Object Oriented Programing	

6. Areas for the test of Assistant Manager ERP

S. No	Test Areas	Percentage
1.	Object Oriented Programing & Phyton Proficiency	20%
2.	Database Management & Programming skills using SQL	20%
3.	Web Development Skills (JavaScript, CSS, HTML)	15%
4.	Odoo ERP Architecture framework and concepts	15%
5.	Source code Management using Github and Basic Ubuntu OS Commands	10%
6.	Agile Development Methodologies, UML & MVC	10%
7.	Problem-Solving and Analytical Thinking	10%

7. Areas for the test of Lecturer – Economics

S. No	Test Areas	Percentage
1.	Microeconomics	15%
2.	Macroeconomics	15%
3.	Econometrics	15%
4.	Development Economics	10%
5.	Statistics	10%
6.	Mathematical Economics	10%
7.	International Economics	10%
8.	Managerial Economics	10%
9.	Economy of Pakistan	05%

8. Areas for the test of Lecturer - English

S. No	Test Area	Sub-Areas	Percentage
1.	English Literature	Literary Periods, Drama, Novel, Poetry, Literary Terms and Criticism, Theories, Short Stories	35%
2.	Linguistics	Phonetics, Phonology, Morphology, Syntax, Semantics, Applied Linguistics, Pragmatics, Neurolinguistics, Psycholinguistics, Forensic Linguistics	40%
3.	Teaching Methodology/Pedagogy	ELT methods, planning, Testing and Evaluation, Technology in the Classroom, and classroom management	10%
4.	Grammar and Vocabulary	Error correction, vocabulary usage, and sentence structure	10%
5.	General Knowledge/ Current Affairs	Education & global academic issues	05%

9. Areas for the test of Lecturer – Cyber Security

S. No	Test Area	Sub-Areas	Percentage	
1.	Programming Concepts for Cybersecurity	Python/C/C++/bash scripting, automation, secure coding, socket programming basics	10%	Computing Concepts related to cybersecurity (30%)
2.	Networking Concepts	OSI model, TCP/IP stack, IP addressing, routing/switching basics, TCP/IP vulnerabilities	10%	
3.	Operating System	Processes, memory management, file systems, system calls	10%	
4.	Network Security	TCP/IP vulnerabilities, Firewalls, IDS/IPS, VPNs, wireless security, secure protocols	15%	Core Cybersecurity (70%)
5.	Cryptography	Encryption methods, hashing, digital signatures, PKI	15%	
6.	Operating System Security	Hardening, access control, secure configurations	10%	
7.	Web and Application Security	OWASP Top 10, secure coding practices, input validation	10%	
8.	Ethical Hacking & Penetration Testing	CIA triad, risk management, security policies, tools (Nmap, Metasploit), vulnerability scanning	10%	
9.	Cybersecurity Governance	CIA triad, risk management, security policies, ISO standards	10%	

10. Areas for the test of Lecturer – Accounting

S. No	Test Area	Sub-Areas	Percentage
1.	Financial Accounting	GAAP Principles, Debit Credit Rules, Financial Statements, Merchandising Activities, Stock Valuation Methods, Depreciation, Amortization, Depletion, Liabilities, Stockholders' Equity	25%

2.	Management Accounting	Costing Methods, CVP Analysis, Variance Analysis, Cost control, Decision Making, Budgeting, Performance Measures	25%
3.	Financial Reporting	Conceptual Frameworks, Accounting Standards, i.e., IFRSs, Disclosures, Consolidation Basics	20%
4.	Auditing	Audit Procedures, Auditing Standards, i.e., ISAs, Internal Controls	15%
5.	Taxation	Basic Tax Computation, Income Tax Laws in Pakistan	15%

11. Areas for the test of Assistant Manager – Admissions:

S. No	Test Areas	Percentage
1.	English i. Professional email writing ii. Letter writing to stakeholder iii. General English	30%
2.	Office Management	10%
3.	MS Office i. Word 10% ii. Excel 20% iii. Power Point 10%	40%
4.	Analytical Reasoning	10%
5.	Basic Mathematics/ Statistics	10%