

FEDERAL PUBLIC SERVICE COMMISSION
(Curriculum & Research Wing)

Schemes and Syllabi for Screening/Professional Tests
Relating to Posts Advertised under Consolidated Advertisement No. 03/2026

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
1.	108/2026	Computer Operator (BS-16), GHQ, Ministry of Defence	Second Class or Grade 'C' Bachelor's degree in Computer Science or Information Technology or equivalent qualification from a University recognized by the HEC.	Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Grammar Usage, Sentence Structuring. Part-II ▪ Operating Systems ▪ Algorithm Design ▪ Database Management System (DBMS) ▪ Hardware & Software ▪ Implementation & Security of LAN & WAN ▪ Software Development Techniques ▪ Computer Networks and Internet
2.	112/2026	Secondary School Teacher (SST) (Male) (BS-17), Directorate of Federal Government Educational Institutions (Cantts/ Garrisons) Schools, Ministry of Defence.	Second Class or Grade 'C' Master's Degree with B.Ed. or equivalent qualification from a University recognized by HEC. OR M.A (Education) / M.A (EPM) from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II ▪ Perspectives of Education in Pakistan ▪ School Administration & Supervision ▪ Planning & Management in Education ▪ Educational Psychology ▪ Curriculum Development & Assessment ▪ Teaching Methodology ▪ Classroom Management ▪ Educational Measurement & Evaluation ▪ Research Techniques in Education ▪ Educational System in Pakistan ▪ Educational Guidance & Counselling

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
3.	113/2026	Computer Instructor (Male) (BS-17), Directorate of Federal Government Educational Institutions, (Cantts/ Garrisons), Ministry of Defence	Second Class or Grade 'C' Master's Degree in Computer Science/ Information Technology or equivalent qualification from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Subject Test = 50 marks Part-III Professional Test=30 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II (Masters Level) - Computer Hardware/Software, - Data Communication & Networking, - Programming Languages including C++, Visual Basic, Python etc. - Operating System Unix/Linux - Windows 10/11, - Oracle/PLSQL, - System Analysis & Design. - Web Programming, - Basics of Artificial Intelligence Part-III - Teaching Techniques and Methodology, - Classroom Management and Discipline, - Testing and Evaluation, - Knowledge of Bloom's Taxonomy
4.	114/2026	Computer Instructor (Female) (BS-17), Directorate of Federal Government Educational Institutions, (Cantts/ Garrisons), Ministry of Defence	Second Class or Grade 'C' Master's Degree in Computer Science/ Information Technology or equivalent qualification from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Subject Test = 50 marks Part-III Professional Test=30 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II (Masters Level) - Computer Hardware/Software, - Data Communication & Networking, - Programming Languages including C++, Visual Basic, Python etc. - Operating System Unix/Linux - Windows 10/11, - Oracle/PLSQL, - System Analysis & Design. - Web Programming, - Basics of Artificial Intelligence Part-III - Teaching Techniques and Methodology, - Classroom Management and Discipline, - Testing and Evaluation, - Knowledge of Bloom's Taxonomy

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5.	115/2026	Drawing Mistress (Female) (BS-16), Directorate of Federal Government Educational Institutions, (Cantts/ Garrisons), Ministry of Defence	Second Class or Grade 'C' Bachelor's degree with one (1) year diploma in Fine Art/ Drawing or equivalent qualification from a University recognized by HEC. OR Bachelor's degree in Fine Arts from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Grammar Usage, Sentence Structuring Part-II ▪ Drawing & Design Theory ▪ Linear Perspective ▪ Elements & Principles of Image Making ▪ Painting: Basic elements of Art, concepts, media and formats. ▪ Printmaking: Basic elements of art and design principles, concepts, media
6.	117/2026	Junior Scientific Officer (BS-16), AFIP (GHQ Medical Directorate), Ministry of Defence	Second Class or Grade 'C' Mater's or BS/Bachelor's (16 years education) degree in Molecular Biology / Bio Informatics/Biochemistry or equivalent qualification from a University recognized by the HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II General Science Test=80 marks	Part-I Grammar Usage, Sentence Structuring. Part-II ▪ Biochemistry ▪ Human Physiology ▪ Immunology ▪ Mycology ▪ Biological Databases ▪ Evolutionary Biology & Phylogenetics ▪ Genomics & Transcriptomics ▪ Structural Bioinformatics & Proteomics ▪ Molecular Docking & Drug Discovery ▪ DNA & RNA structure ▪ Chromosomes & chromatin ▪ Denaturation & Renaturation
7.	118/2026	Electrical Engineer (BS-16), AFIP (GHQ Medical Directorate), Ministry of Defence.	i. Bachelor's of Engineering (Electrical / Electronics) in Electro Medical Engineering from a University recognized / Registered by the HEC. ii. Registration of the applicant with P.E.C.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Grammar Usage, Sentence Structuring Part-II ▪ Power Generation/Transmission, ▪ AC. DC. Machines, ▪ Power and Digital Electronics, ▪ Electric Circuits, ▪ Semiconductor Devices, ▪ Operational Amplifiers, ▪ Oscillator & Circuit Theory, ▪ Logic Design & Switching Theory, ▪ Rules and Instructions of Repairs of the Multilayer Printed Circuit Boards, ▪ Use of Specialized Diagnostic Test Equipment, ▪ RF Devices.

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8.	121/2026	Assistant Director (Legal/ Enforcement) (BS-17), Pakistan Environmental Protection Agency (Pak-EPA), Ministry of Climate Change and Environmental Coordination	i. Second Class or Grade 'C' L.L.B from a University recognized by HEC. ii. Two (2) years' post qualification experience of litigation / prosecution in any Govt. Law Enforcement Agency / Semi-Govt. or reputable Organization.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test = 80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II ▪ Pakistan Penal Code ▪ Pakistan Criminal Code ▪ Qanoon-e-Shahadat Order, 1984 ▪ Legal Drafting ▪ Pleading and Convincing ▪ Inquiries and Investigation ▪ Environmental Laws of Pakistan ▪ Health Safety and Environment ▪ Civil Servants Act 1973 and Rules made thereunder ▪ Civil Servants (Appointment, Promotion and Transfer) Rules, 1973 ▪ Government Servants Conduct Rules, 1964 ▪ Civil Servant (Appeal) Rules, 1977
9.	122/2026	Sub Engineer (BS-16) , Pakistan Environmental Protection Agency (Pak-EPA), Ministry of Climate Change and Environmental Coordination	Second Class or Grade 'C' M.Sc. / BS in Chemistry / Environmental Sciences from a University recognized by HEC. OR Three (3) years Diploma in Associate Engineer (Electronics) form a recognized Institute with two (2) years' post qualification experience in the relevant field.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test = 80 marks	Part-I Grammar Usage, Sentence Structuring Part-II ▪ Environmental Laws of Pakistan ▪ Health Safety and Environment ▪ Electronic Instrumentations. ▪ Logic Design & Switching Theory. ▪ Circuit Theory, Electric Current and Ohm's law ▪ Electrostatics ▪ Nature, Properties & States of Matter, ▪ Electronic Structure, ▪ Bonding, ▪ Chemical Kinetics & Radioactivity

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
10.	125/2026	Lecturer (Male) (BS-17), A. Accounting & Finance B. Botany C. Chemistry D. Computer Science (AI) E. Computer Science (Data Science) F. Computer Science (Software Engineering) G. Education H. English I. Islamiat J. Mathematics K. Pakistan Studies L. Political Science M. Physics N. Sociology O. Tourism & Hospitality Management P. Urdu Q. Zoology Education Department GB, M/O Kashmir Affairs and Gilgit Baltistan	Second Class or Grade 'C' Master's degree in the relevant subject from a University recognized by the HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Subject Test = 50 marks Part-III Professional Test = 30 marks Note: - In Language Subject (i.e Urdu), English part for 20 marks will not be included. There will be 70% subject Test and 30% Professional Test. - In the subject of Education, there will be two parts i.e. English 20% and Education 80%.	For (A) Accounting & Finance Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II (Masters Level) - Introduction to Finance, - Time Value of Money, - Financial assets / securities and their valuation, - Capital investment, - Capital budgeting - Principles of Accounting - Financial Accounting - Preparation of Final Accounts, - Departmental Accounting, - Branch Accounting, - Accounting for Joint Venture, - Partnership Accounting, - Analysis of Financial Statements, - Partnership Accounting Part-III - Teaching Techniques and Methodology, - Classroom Management and Discipline, - Testing and Evaluation, - Knowledge of Bloom's Taxonomy For (B) Botany Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II (Masters Level) - Algae, Fungi and Bryophytes - Anatomy and Embryology - Plant Physiology - Ecology - Cytology - Molecular Biology Part-III - Teaching Techniques and Methodology, - Classroom Management and Discipline, - Testing and Evaluation, - Knowledge of Bloom's Taxonomy

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
					<u>For (C) Chemistry</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> ▪ Nature, Properties & States of Matter, ▪ Electronic Structure, ▪ Bonding, ▪ Chemical Kinetics & Radioactivity, ▪ Synthetic Chemistry ▪ Polymers, ▪ Reaction Mechanism (electrophilic & nucleophilic substitution and addition reaction) ▪ Inorganic Chemistry, ▪ Thermodynamics, ▪ Electrochemistry, <u>Part-III</u> ▪ Teaching Techniques and Methodology, ▪ Classroom Management and Discipline, ▪ Testing and Evaluation, ▪ Knowledge of Bloom's Taxonomy
					<u>For (D) Computer Science (AI)</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> ▪ Computer Hardware/Software, ▪ Data Communication & Networking, ▪ Programming Languages including C++, Visual Basic, Python etc. ▪ Operating System Unix/Linux ▪ Windows 10/11, ▪ Oracle/PLSQL, ▪ System Analysis & Design. ▪ Web Programming, ▪ Identifying AI systems, ▪ Branches of AI, ▪ Case study of AI systems ▪ Analysis of AI systems

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					<u>Part-III</u> - Teaching Techniques and Methodology, - Classroom Management and Discipline, - Testing and Evaluation, - Knowledge of Bloom's Taxonomy <u>For (E) Computer Science (Data Science)</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> - Computer Hardware/Software, - Data Communication & Networking, - Programming Languages including C++, Visual Basic, Python. - Operating System Unix/Linux - Windows 10/11, - Oracle/PLSQL, - System Analysis & Design. - Web Programming, - Tools and Techniques for Data Science - Statistical and Mathematical Methods for Data Analysis <u>Part-III</u> - Teaching Techniques and Methodology, - Classroom Management and Discipline, - Testing and Evaluation, - Knowledge of Bloom's Taxonomy <u>For (F) Computer Science (Software Engineering))</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> - Computer Hardware/Software, - Data Communication & Networking, - Programming Languages including C++, Visual Basic, Python etc. - Operating System Unix/Linux - Windows 10/11, - Oracle/PLSQL, - System Analysis & Design. - Web Programming, - Software Construction & Development - Software Design & Architecture - Software Project Management

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					<u>Part-III</u> ▪ Teaching Techniques and Methodology, ▪ Classroom Management and Discipline, ▪ Testing and Evaluation, ▪ Knowledge of Bloom's Taxonomy <u>For (G) Education</u> <u>Part-I (20 Marks)</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II Education (80 Marks)</u> ▪ Educational Process ▪ Role of education in Nation Building, National cohesion and integration, Character building, Human resource development, World peace and prosperity ▪ Philosophical & Psychological Foundations of Education ▪ Islamic Concept of Education ▪ Process of Teaching and Teaching Strategies ▪ Education Assessment and Evaluation ▪ Distinction between Assessment, Evaluation and Measurement ▪ Types of Test: Essay Type; Objective Type: Multiple Choice, True-False Items, Matching Type; Principles of Construction of these Test ▪ Characteristics of a Good Test: Validity, Reliability, Objectivity, Usability ▪ Education Administration and Supervision <u>For (H) English</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring. <u>Part-II (Masters Level)</u> ▪ English Literature 16th to 20th Century. ▪ Pakistani English Literature ▪ Modern English Literature ▪ Linguistics. ▪ English Language Teaching. ▪ Syntax. • Diction. <u>Part-III</u> ▪ Teaching Techniques and Methodology, ▪ Classroom Management and Discipline, ▪ Testing and Evaluation, ▪ Knowledge of Bloom's Taxonomy

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					<u>For (I) Islamiyat</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> ن کا بنیادی موضوع / متن ت النبی ﷺ جامعیت، اختلاف رائے اور عصر حاضر کے تناظر مذہب کی تشریح۔ ف اسلام فی زندگی میں دین کی اہمیت م کے نمایاں پہلو بی عقائد کے انفرادی اور اجتماعی اثرات م حقوق۔ اسلام کی نظر میں م اور عصر حاضر کے چیلنجز م نظام حکم اذ کا ڈھانچہ <u>Part-III</u> • Teaching Techniques and Methodology • Classroom Management and Discipline • Testing and Evaluation • Knowledge of Bloom's Taxonomy <u>For (J) Mathematics</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> ▪ Calculus/Differentiation, Integration, Limits of continuity ▪ General Theorems (Rolle's Theorem, Mean Value Theorem) ▪ Areas and Volumes, centre of Mass ▪ Computing Tools for Mathematicians, ▪ Mathematical Statistics, ▪ Mathematical Spaces (Sets, Vector Spaces, Metric Spaces, topological spaces) ▪ Differential Equations.

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					Part-III • Teaching Techniques and Methodology • Classroom Management and Discipline • Testing and Evaluation • Knowledge of Bloom's Taxonomy For (K) Pak. Studies Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II (Masters Level) ▪ Ideology of Pakistan in light of speeches and statements of Allama Iqbal and Quaid-e-Azam ▪ Pakistan Movement 1857-1947 ▪ Current Issues of Pakistan (challenges to National Security, Economic Challenges, Pakistan's War on Terror, ▪ Geography of Pakistan ▪ Land and People of Pakistan ▪ Pakistan and CPEC ▪ Natural Resources of Pakistan, • Latest Constitutional Amendments, Part-III • Teaching Techniques and Methodology • Classroom Management and Discipline • Testing and Evaluation • Knowledge of Bloom's Taxonomy For (L) Political Science Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II (Masters Level) ▪ Western Political Thought (Plato, Aristotle, Machiavelli, Montesquieu, Hobbes, Locke, Rousseau, Marx, Lenin, Frances Fukuyama) ▪ Muslim Political Thought (Al-Farabi, Al-Mawardi, Imam Ghazali, Ibn Khaldun, Shah Waliullah, Allama Muhammad Iqbal) ▪ State System: Islamic Concept ▪ Political Institutions and Role of Government ▪ Political Ideologies (Capitalism, Marxism, Communism, Nationalism, Islamic Political Ideology) ▪ Government and Politics in Pakistan: Analysis of 1956, 1962, 1973 Constitutions ▪ History of International Relations: Post World War-II Period.

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
					▪ Comparative Study of Political System (Turkey, India, Malaysia and China) <u>Part-III</u> ▪ Teaching Techniques and Methodology ▪ Classroom Management and Discipline ▪ Testing and Evaluation ▪ Knowledge of Bloom's Taxonomy <u>For (M) Physics</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> ▪ Mechanics ▪ Heat and Thermodynamics, ▪ Waves and Optics, ▪ Electrostatic, ▪ Electricity and Magnetism, ▪ Modern and Quantum Physics, ▪ Nuclear Physics, ▪ Basic Solid State Physics, <u>Part-III</u> ▪ Teaching Techniques and Methodology ▪ Classroom Management and Discipline ▪ Testing and Evaluation ▪ Knowledge of Bloom's Taxonomy <u>For (N) Sociology</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> ▪ Meaning, Characteristics and Elements of Culture ▪ Society: Meaning and Characteristics ▪ Social Contract Theory & Organismic Theory ▪ Sociological Theories (Ibn-i-Khaldun, Spencer, Max Weber, Karl Marx) ▪ Methods of Sociological Research, ▪ Social Institutions: Nature, Genesis & Function ▪ Mechanism of Social Control: Formal & Informal ▪ Social and Cultural Change & Social Policy: Processes & Effects ▪ Community organization and development ▪ Social Problems in Pakistan

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					<u>Part-III</u> ▪ Teaching Techniques and Methodology ▪ Classroom Management and Discipline ▪ Testing and Evaluation ▪ Knowledge of Bloom's Taxonomy ▪ <u>For (O) Tourism & Hospitality Management</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring. <u>Part-II (Masters Level)</u> ▪ Basis of Tourism, ▪ Tourism Promotion. ▪ Characteristics of Hospitality industry, ▪ Natures of Hospitality industry, ▪ Services offered by hospitality industry, ▪ Historical development in accommodation sector, ▪ Accommodation classification ▪ The Hotel Development Process, ▪ The Art and Science of Opening a Hotel, ▪ Customer Relationship Management, ▪ Ownership structure of hotels. ▪ Dimensions of Sustainable Tourism: ▪ Sustainable Tourism & Cultural Heritage ▪ Cultural Tourism Resources ▪ Attractions of Cultural Tourism in Pakistan ▪ Cultural Tourism Planning & Operations <u>Part-III</u> ▪ Teaching Techniques and Methodology, ▪ Classroom Management and Discipline, ▪ Testing and Evaluation, ▪ Knowledge of Bloom's Taxonomy

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
					<u>For (P) Urdu</u> <u>Part-I (Masters Level) (70 Marks)</u> • اردو ذخیرہ الفاظ • اردو جملے کا ڈھانچہ • اردو قواعد کا استعمال • لسانیات • غالبیات • اقبالیات • تنقید • طنز و مزاح • نثر • ناول <u>Part-II (30 Marks)</u> ▪ Teaching Techniques and Methodology ▪ Classroom Management and Discipline ▪ Testing and Evaluation ▪ Knowledge of Bloom's Taxonomy <u>For (Q) Zoology</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> ▪ Eco System, ▪ Classification of Fish, Reptiles, Mammals, ▪ Classification of Mollusks, Edinodermata, ▪ Mammalian Hormonal System, ▪ Membrane System, ▪ Mammalian Gametogenesis and Fertilization, ▪ Multiple Alleles. ▪ Mendelian laws of inheritance, ▪ Reproduction and Development, <u>Part-III</u> ▪ Teaching Techniques and Methodology, ▪ Classroom Management and Discipline, ▪ Testing and Evaluation, ▪ Knowledge of Bloom's Taxonomy

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
11.	126/2026	Lecturer (Female) (BS-17), A. Computer Science (AI) B. Computer Science (Data Science) C. Education D. English E. Psychology F. Urdu Education Department GB, M/O Kashmir Affairs and Gilgit Baltistan	Second Class or Grade 'C' Master's degree in the relevant subject from a University recognized by the HEC.	Objective Type Test (MCQ) <u>Part-I</u> English = 20 marks <u>Part-II</u> Subject Test = 50 marks <u>Part-III</u> Professional Test = 30 marks Note: - In Language Subject (i.e Urdu), English part for 20 marks will not be included. There will be 70% subject Test and 30% Professional Test. - In the subject of Education, there will be two parts i.e. English 20% and Education 80%.	<u>For (A) Computer Science (AI)</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> - Computer Hardware/Software, - Data Communication & Networking, - Programming Languages including C++, Visual Basic, Python - Operating System Unix/Linux - Windows 10/11, - Oracle/PLSQL, - System Analysis & Design. - Web Programming, - Identifying AI systems, - Branches of AI, - Case study of AI systems - Analysis of AI systems <u>Part-III</u> - Teaching Techniques and Methodology, - Classroom Management and Discipline, - Testing and Evaluation, - Knowledge of Bloom's Taxonomy <u>For (B) Computer Science (Data Science)</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> - Computer Hardware/Software, - Data Communication & Networking, - Programming Languages including C++, Visual Basic, Python - Operating System Unix/Linux - Windows 10/11, - Oracle/PLSQL, - System Analysis & Design. - Web Programming, - Tools and Techniques for Data Science - Statistical and Mathematical Methods for Data Analysis <u>Part-III</u> - Teaching Techniques and Methodology, - Classroom Management and Discipline, - Testing and Evaluation, - Knowledge of Bloom's Taxonomy

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					<u>For (C) Education</u> <u>Part-I (20 Marks)</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II Education (80 Marks)</u> ▪ Educational Process ▪ Role of education in Nation Building, National cohesion and integration, Character building, Human resource development, World peace and prosperity ▪ Philosophical & Psychological Foundations of Education ▪ Islamic Concept of Education ▪ Process of Teaching and Teaching Strategies ▪ Education Assessment and Evaluation ▪ Distinction between Assessment, Evaluation and Measurement ▪ Types of Test: Essay Type; Objective Type: Multiple Choice, True-False Items, Matching Type; Principles of Construction of these Test ▪ Characteristics of a Good Test: Validity, Reliability, Objectivity, Usability ▪ Education Administration and Supervision <u>For (D) English</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring. <u>Part-II (Masters Level)</u> ▪ English Literature 16th to 20th Century. ▪ Pakistani English Literature ▪ Modern English Literature ▪ Linguistics. ▪ English Language Teaching. ▪ Syntax. ▪ Diction. <u>Part-III</u> ▪ Teaching Techniques and Methodology, ▪ Classroom Management and Discipline, ▪ Testing and Evaluation, ▪ Knowledge of Bloom's Taxonomy

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					<u>For (E) Psychology</u> <u>Part-I</u> Vocabulary, Grammar Usage, Sentence Structuring <u>Part-II (Masters Level)</u> ▪ Nature and Scope of Psychology ▪ Biological basis of Behaviour ▪ Developmental Psychology ▪ Social Psychology ▪ Educational Psychology ▪ Counselling Psychology ▪ Abnormal and Clinical Psychology ▪ Organizational/Industrial Psychology ▪ Forensic Psychology ▪ Psychological Testing and Assessment ▪ Research Methodology <u>Part-III</u> ▪ Teaching Techniques and Methodology ▪ Classroom Management and Discipline ▪ Testing and Evaluation ▪ Knowledge of Bloom's Taxonomy <u>For (F) Urdu</u> <u>Part-I (Masters Level) (70 Marks)</u> • اردو ذخیرہ الفاظ • اردو جملے کا ڈھانچہ • اردو قواعد کا استعمال • لسانیات • غالیات • اقبالیات • تنقید • طنز و مزاح • نثر • ناول

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					Part-II (30 Marks) - Teaching Techniques and Methodology - Classroom Management and Discipline - Testing and Evaluation - Knowledge of Bloom's Taxonomy
12.	132/2026	Assistant Director (BS-17), Board of Investment, Prime Minister' Office.	i. Second class or Grade 'C' Master's degree or equivalent in one of the following subject:- Economics / Commerce / Business Administration / Public Administration / Physics / Chemistry / International Relations or Chemicals/ Electronics / Mechanical Engineering. ii. Two (2) years post qualification experience in the field of Industrial Production / Financial and economic analysis of investment proposals / Marketing. Management Development / Economic Policy and Planning / Industrial Policy Investment Promotion in Commercial / Industrial Government / Semi Government Organizations / private firms of repute.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring. Part-II - Investment Policy of Pakistan - Investment Opportunities in Pakistan in different Sectors - Financial and Economic Analysis of Investment proposals - Public Private Partnership and Investment opportunities - Investment Climate for foreign Investment, - Economic Policy and Planning - Industrial Policy of the Government - Methods of Investment Promotion - Functions of Board of Investment
13.	133/2026	Public Relation Officer (BS-16), Board of Investment, Prime Minister' Office.	i Second Class or Grade 'C' Bachelor's degree. ii Five (5) years post qualification experience in protocol and Public Relation Work.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II General Intelligence/ Professional Test = 80 marks	Part-I Grammar Usage, Sentence Structuring Part-II (Bachelor's Level) - Basic Arithmetic - Algebra - Ratios - Percentages - Arithmetic Means - Current Affairs. - Issues/Challenges at National and International Level during the last 5 years - Pakistan Affairs - Basic Level knowledge - Concept of Public Relations - Public relations and publicity

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14.	137/2026	Associate Fellow (BS-17), National Institute of Population Studies, Training & Research, Ministry of National Health Services, Regulations & Coordination.	Second Class or Grade 'C' Master's Degree in Economics / Statistics / Sociology / Anthropology / Demography from a University recognized by the HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar usage, Sentence Structuring. Part-II - Population pyramid and transition from high to low fertility rate - Main features of Population and housing census 2017 - Qualitative and Quantitative research difference - Challenges of field survey - Difference between gender equality and gender equity - Steps involved in standard research proposal - Concept of Mean, Median, Mode and Range - Cross-section vs longitudinal studies advantages and challenges - Use of research studies in decision making and implementation - Demographic dividend and economic growth in Pakistan - Digital Census
15.	138/2026	Administrative Officer (BS-17), National Institute of Population Studies, Training & Research, Ministry of National Health Services, Regulations & Coordination.	i. Second Class or Grade 'C' Master's Degree in Public Administration / Business Administration from a University recognized by the HEC. ii. Two (2) years post qualification experience in the relevant field.	Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II - Principles of Management - Human Resource Management - Civil Servants Act, 1973 and Rules made thereunder - Rules of Business, 1973 - Principles of Secretariat Noting and Drafting - Basic IT knowledge. - Basic Arithmetic, - Financial Management and Powers of Principal Accounting Officers Regulations, 2021 - Public Procurement Rules, 2004

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16.	139/2026	Boiler Engineer (BS-17), Remount Veterinary and Farms Directorate, GHQ, Ministry of Defence	i. Three (3) years Diploma in Electrical or Mechanical Engineering from a recognized Institute. ii. 1st class Boiler Engineer Certificate. iii. Three (3) years post qualification experience in the relevant field. OR i. 1 st class Boiler Engineer Certificate. ii. Five (5) years post qualification experience in the relevant field.	Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II - Fundamental Design of Boiler - Boiler Mountings, Accessories and Auxiliaries - Draught System of Boilers - Boiler Performance, - Steam Engines and Condensers, - Boiler Operation & Maintenance, - Boiler Safety, - Boiler Metallurgy, - Boiler Protection and Interlocks, - Boiler Pollution Control, - Liquid/Solid Fuel Handling
17.	141/2026	General Duty Medical Officer (BS-17), Armed Forces Bone Marrow Transplant Centre, M/O Defence	i. MBBS or equivalent qualification recognized by the PMDC and from a University recognized by the Higher Education Commission (HEC). ii. Valid Registration with PMDC.	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II - Core courses of MBBS Degree Program. - Health Policies of the Government of Pakistan. - Care vs Cure for Health Management. - Major Challenges being faced by the Health Sector in Pakistan.
18.	142/2026	Scientific Officer (BS-17), Armed Forces Bone Marrow Transplant Centre, M/o Defence	Second Class or Grade 'C' Master's / Bachelor's (16 years education) degree in Biochemistry or Molecular Biology or equivalent qualification from a University recognized by the Higher Education Commission (HEC).	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II - Biomolecules & Macromolecules - Enzymes & Coenzymes - Bioenergetics - Metabolism - Nucleic Acids and Chromatin Organization - DNA Replication, Repair, and Recombination - Transcription and RNA Processing - Regulation of Gene Expression - Molecular Biology Techniques

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
19.	143/2026	Dietician (BS-17), Armed Forces Bone Marrow Transplant Centre, M/O Defence	Second Class or Grade 'C' Master's / Bachelor's (16 years education) degree in Food Sciences & Nutrition / Human Nutrition & Dietetics / Food Sciences and Technology or equivalent qualification from a University recognized by the HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test = 80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II - Fundamentals of Food & Nutrition - Principles of Diet Therapy. - Planning & Preparation of Balanced Diet. - Physiological aspect of Nutrition - Food Microbiology - Energy Value of Foods - Sanitation and Hygiene - Nutrition Health & Prevention
20.	144/2026	Pharmacist (BS-17), Armed Forces Bone Marrow Transplant Centre, M/O Defence	Second Class or Grade 'C' B-Pharmacy / Pharm-D or equivalent qualification from a University recognized by the Pharmacy Council of Pakistan (PCP).	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring. Part-II - Physical Pharmacy, - Clinical Pharmacy, - Industrial Pharmacy, - Hospital Pharmacy, - Pharmaceutical Chemistry, - Pharmaceutical Biochemistry, - Pharmaceutical Microbiology, - Pharmaceutical Quality Control & Management, - Physiology & Histology, - Application of Computer in Pharmacy.
21.	145/2026	Documentation / Medical Statistician (BS-16), Armed Forces Bone Marrow Transplant Centre, M/o Defence	Second Class or Grade 'C' Master's / Bachelor's (16 years education) degree in bioinformatics / data Science or equivalent qualification from a University recognized by the Higher Education Commission (HEC).	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring. Part-II - Statistical Analysis - Regression Analysis - Descriptive & Inferential Statistics - Hypothesis Testing & Statistical Inference - Medical Data Concepts - Data Management & Statistical Software - Experimental Design - Report Writing

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
22.	146/2026	Charge Nurse (BS-16), Armed Forces Bone Marrow Transplant Centre, M/O Defence	i. Second Class or Grade 'C' BS in Nursing or equivalent qualification from a College / University / Institute recognized by the Pakistan Nursing Council (PNC) and Higher Education Commission (HEC). OR Three (3) years diploma in Nursing or equivalent qualification from a College / University / Institute recognized by the PNC / HEC with one (1) year Course / certificate in Midwifery (for females) or one (1) year Course / certificate in Nursing related field in lieu of Midwifery (for males). ii. Valid registration with the PNC.	Part-I English = 20 marks Part-II Professional Test=80 Marks	Part-I Grammar Usage, Sentence Structuring Part-II ▪ Basic Medical Sciences ▪ General Nursing ▪ Ward Administration ▪ Hospitality of the Patients ▪ Care vs. Cure for Health Management ▪ Developing Training & Instructional Materials for Nursing Courses.
23.	147/2026	Database Administrator (BS-17), National Archives of Pakistan, Cabinet Division	Second Class or Grade 'C' Master's BS / Bachelor's (16 years education) degree in Information Technology / Computer Science/ Data Science/Software Engineering/ Computer System Engineering / Computer Engineering or equivalent qualification from a University recognized by the HEC/ PEC	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II ▪ Introduction to Oracle Database and SQL overview ▪ Modifying Information in Multiple Databases ▪ Backup and Recovery ▪ Managing Constraints and Indexes ▪ Managing Tables and views ▪ Managing Users and Security ▪ Oracle Database Server Architecture

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi																		
24.	148/2026	Principal Technician (BS-17), A. Cardiology B. General C. Medical Store D. Operation Theatre E. Pathology Pakistan Institute of Medical Sciences (PIMS), Islamabad, Ministry of National Health Services, Regulations and Coordination.	Second Class or Grade 'C' Master's OR Bachelor (16 years education) degree in the relevant discipline. <table><tr><td></td><td>Cat.</td><td>Respective Subject / Specialties</td></tr><tr><td>A</td><td>Cardiology</td><td>Cardiology/Cardiology Technology/ Cardiovascular Technology</td></tr><tr><td>B</td><td>General</td><td>Anaesthesia/ Cardiology/ Operation Theatre/ Pathology/Pharmacy/ Physiotherapy/ Radiology/Surgical/ Dental/EED/ Nephrology Ophthalmology/ENT</td></tr><tr><td>C</td><td>Medical Store</td><td>Pharmacy</td></tr><tr><td>D</td><td>Operation Theatre</td><td>Operation Theatre Sciences / Operation Theatre Technology</td></tr><tr><td>E</td><td>Pathology</td><td>Microbiology and Pathology, Molecular Pathology, Bio Chemistry, Chemical Pathology & Diagnostic Endocrinology, Microbiology</td></tr></table>		Cat.	Respective Subject / Specialties	A	Cardiology	Cardiology/Cardiology Technology/ Cardiovascular Technology	B	General	Anaesthesia/ Cardiology/ Operation Theatre/ Pathology/Pharmacy/ Physiotherapy/ Radiology/Surgical/ Dental/EED/ Nephrology Ophthalmology/ENT	C	Medical Store	Pharmacy	D	Operation Theatre	Operation Theatre Sciences / Operation Theatre Technology	E	Pathology	Microbiology and Pathology, Molecular Pathology, Bio Chemistry, Chemical Pathology & Diagnostic Endocrinology, Microbiology	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks Note: Separate Paper for each category should be devised.	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II ▪ Core Courses of Relevant discipline/ Categories
	Cat.	Respective Subject / Specialties																					
A	Cardiology	Cardiology/Cardiology Technology/ Cardiovascular Technology																					
B	General	Anaesthesia/ Cardiology/ Operation Theatre/ Pathology/Pharmacy/ Physiotherapy/ Radiology/Surgical/ Dental/EED/ Nephrology Ophthalmology/ENT																					
C	Medical Store	Pharmacy																					
D	Operation Theatre	Operation Theatre Sciences / Operation Theatre Technology																					
E	Pathology	Microbiology and Pathology, Molecular Pathology, Bio Chemistry, Chemical Pathology & Diagnostic Endocrinology, Microbiology																					

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
25.	150/2026	Nurse (BS-16) , AFIRI, Ministry of Defence.	i. Second Class or Grade 'C' Bachelor's degree in Nursing or equivalent qualification from a College/ University/ Institute recognized by Pakistan Nursing Council (PNC). OR Three (3) years diploma in General Nursing or equivalent qualification from a College/ University/ Institute recognized by Pakistan Nursing Council (PNC) with one year diploma in Midwifery for female/ one year course in Nursing related field in lieu of Midwifery for male. ii. Valid registration with PNC.	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Grammar Usage, Sentence Structuring Part-II ▪ Basic Medical Sciences ▪ General Nursing ▪ Ward Administration ▪ Hospitality of the Patients ▪ Care vs. Cure for Health Management
26.	153/2026	Charge Nurse (BS-16) , Pakistan Institute of Medical Sciences (PIMS), Islamabad, Ministry of National Health Services, Regulations and Coordination.	i. Registered Nurse and Registered Midwife with PNC. ii. For male one year course / certificate in nursing related field in lieu of Midwifery.	Part-I English = 20 marks Part-II Professional Test=80 Marks	Part-I Grammar Usage, Sentence Structuring Part-II ▪ Basic Medical Sciences ▪ General Nursing ▪ Ward Administration ▪ Hospitality of the Patients ▪ Care vs. Cure for Health Management ▪ Developing Training & Instructional Materials for Nursing Courses.
27.	154/2026	Assistant Director (Legal) (BS-17) Federal Investigation Agency (FIA), Ministry of Interior & Narcotics Control	i. Second Class or Grade 'C' LLB degree from a University recognized by HEC. ii. Two (2) years (post qualification) experience of legal practice / prosecution working in legal field.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II ▪ Basic knowledge of Criminal Procedure Code, ▪ Basic knowledge of "Qanun-e-Shahadat Order", 1984 ▪ Basic knowledge of Pakistan Penal Code, ▪ Anti Money Laundering Act 2010 ▪ Cyber Security, ▪ FIA Act, 1974

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
28.	155/2026	Superintendent (BS-16), Federal Investigation Agency (FIA), Ministry of Interior & Narcotics Control	Second Class or Grade 'C' Master's degree (16 years schooling) from a University recognized by the HEC. OR i. Second Class or Grade 'C' Bachelor's degree (14 years schooling) from a University recognized by the HEC. ii. Two (2) years post qualification experience in the field of Accounts / Administration.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Grammar Usage, Sentence Structuring Part-II - Human Resource Management - Civil Servants Act, 1973 and Rules made thereunder - Rules of Business, 1973 - Financial Management and Powers of Principal Accounting Officers Regulations, 2021 - Public Procurement Rules, 2004 - Basic Arithmetic & Computer/IT.
29.	158/2026	Technical Expert (BS-17), Ministry of Defence. Category-A: Electrical/ Mechanical / Electronics Category-B: Computer Science/ Information Technology	For Category-A Bachelor's of Engineering in the relevant subject or equivalent qualification from a University recognized by HEC. For Category-B Second Class or Grade 'C' Master's degree in Computer Science/ Information Technology or equivalent qualification from a University recognized by HEC. OR Second Class or Grade 'C' Bachelor's Degree (4 years duration) in Computer Science/ Software Engineering/ Information Technology or equivalent qualification from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks Note: For Cat-A separate papers may be designed as there is hardly any commonality in the syllabus of the three disciplines of Engineering.	For Cat-A Part-I Vocabulary, Grammar Usage, Sentence Structuring. Part-II For Electrical Engineer - Electric Circuits - Semiconductor Devices - Electrical Instrumentation - Power Transmission - Power System Operation and Control - Power System Protection - High Voltage Engineering - Electrostatics & Electronic System Design - DC Motors & Generators - Transmission Lines & Antennas - Basic IT/Computer Knowledge - DC Generators and Batteries - Power Factor and Power Factor Improvement - AC Fundamentals - AC Motors and AC Generators - Power System Analysis - Heating Ventilation and AC Equipment - Project Management - Alternative Energy Sources

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
					<u>For Electronics Engineer</u> • Power Electronics. • Digital Electronics. • Operational Amplifiers. • Electronic Instrumentations. • Logic Design & Switching Theory. • Circuit Theory, Electric Current and Ohm's law • Batteries • Electrostatics • Magnetic Circuits • Electrical Engineering Materials • Instruments and Measurements • DC Generators. • Transformers. • Transmission and Distribution Cables. • High Voltage Engineering • Rectifiers and Convertors. <u>For Mechanical Engineer</u> • Heat Transfer • Thermodynamics • Industrial Materials • Machine Design and Drawing • Mechanics of Machines • Production Management & Quality Control • Workshop Technology • Hydraulic Machines • Basic IT/Computer Knowledge • Heating Ventilation and AC Equipment (in depth knowledge)

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
					For Cat-B Part-I Vocabulary, Grammar Usage, Sentence Structuring. Part-II • Open Source Interconnect (OSI) Model and Network Security • Fundamental Programming, • Data types, • Program Logic, • Development of Basic Algorithms, • Computer Networks and Internet, • Designing Solution & Testing, • Programming Languages including C++, Visual Basic, Python etc. • Unix/Red Hat Linux Operating System, • Multiple Browsers, • Search Engine Optimization, • Web Development
30.	159/2026	Bullion Superintendent (BS-17), Pakistan Mint, Lahore, Ministry of Finance	i. Second Class or Grade 'C' Master's degree from a University recognized by the HEC. ii. Two (2) years post qualification experience of Stores, inter Workshop transactions, inventory and safe stock keeping of stores or metals.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring. Part-II • Basic Arithmetic • General Science • Basic knowledge of I.T • Procedures of Receipt and Issue of Stores • Public Procurement Rules, 2004 • Stores procedures with relation to following topics:- a. Stock Taking b. Inter workshop transactions c. Inventory of goods d. Ware House Management

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
31.	160/2026	Assistant Director Estate (General) (BS-17), Estate Office Management, Ministry of Housing & Works	2 nd Class or Grade "C" Master's Degree in Economics/ Mathematics/ Statistics/ Business Administration/ Commerce/ Public Administration or equivalent from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II General Intelligence/ Professional Test = 80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring. Part-II ▪ Basic Arithmetic – Algebra – Ratios – Percentages – Arithmetic Means ▪ Current Affairs. – Issues/Challenges at National and International Level during the last 5 years ▪ Pakistan Affairs – Basic Level knowledge ▪ Accommodation Allocation Rules ▪ Land and Building (recovery of possession) Rules ▪ Functions of Ministry of Housing & Works and Estate Office
32.	161/2026	Secondary School Teacher (Physical) (Male) (BS-17), Ex- F.G Schools, Federal Directorate of Education, Ministry of Federal Education & Professional Training	Second Class or Grade 'C' Master's degree / Bachelor's degree (4 years duration) in Physical Education with Second Class or Grade 'C' M.Ed. / B.Ed. / B.Ed. (Hons) / Associate Diploma in Education or equivalent qualification from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Subject Test = 50 marks Part-III Professional Test=30 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II (Masters Level) • Curriculum Development in Physical Education, • Rules of games (Hockey, Volley Ball) • Basics of Human Anatomy • Administrative and Management in Sports • Sports Nutrition, • Trauma and Rehabilitation, • Test, Measurement and Evaluation in Sports • Athletic Injuries, • Handicap Sports Organization Part-III • Teaching Techniques and Methodology, • Classroom Management and Discipline, • Testing and Evaluation, • Knowledge of Bloom's Taxonomy

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
33.	162/2026	Secondary School Teacher (Physical) (Female) (BS-17), Ex-F.G Schools, Federal Directorate of Education, Ministry of Federal Education & Professional Training	Second Class or Grade 'C' Master's degree / Bachelor's degree (4 years duration) in Physical Education with Second Class or Grade 'C' M.Ed. / B.Ed. / B.Ed. (Hons) / Associate Diploma in Education or equivalent qualification from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Subject Test = 50 marks Part-III Professional Test=30 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II (Masters Level) • Curriculum Development in Physical Education, • Rules of games (Hockey, Volley Ball) • Basics of Human Anatomy • Administrative and Management in Sports, • Sports Nutrition, • Trauma and Rehabilitation, • Test, Measurement and Evaluation in Sports • Athletic Injuries, • Handicap Sports Organization Part-III • Teaching Techniques and Methodology, • Classroom Management and Discipline, • Testing and Evaluation, • Knowledge of Bloom's Taxonomy
34.	163/2026	Senior Elementary Teacher (Physical) (Male) (BS-16), Ex-F.G Schools, Federal Directorate of Education, Ministry of Federal Education and Professional Training	Second Class or Grade 'C' Master's degree / Bachelor's degree (4 years duration) in Physical Education with Second Class or Grade 'C' M.Ed. / B.Ed. / B.Ed. (Hons) / Associate Diploma in Education or equivalent qualification from a University recognized by HEC	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Subject Test = 50 marks Part-III Professional Test=30 marks	Part-I Grammar Usage, Sentence Structuring Part-II (Masters Level) • Curriculum Development in Physical Education, • Rules of games (Hockey, Volley Ball) • Basics of Human Anatomy • Administrative and Management in Sports • Sports Nutrition, • Trauma and Rehabilitation, • Test, Measurement and Evaluation in Sports • Athletic Injuries, • Handicap Sports Organization Part-III • Teaching Techniques and Methodology, • Classroom Management and Discipline, • Testing and Evaluation, • Knowledge of Bloom's Taxonomy

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
35.	166/2026	Electronic Engineer (BS-17), Pakistan Meteorological Department (PMD), Ministry of Defence	i. B.E / B.Sc. Engineering / equivalent qualification in Electronics / Mechatronics / Electrical or equivalent from a university recognized by HEC. ii. Registration with Pakistan Engineering Council (PEC)	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II ▪ Power & Digital Electronics. ▪ Electronic Instrumentations. ▪ Logic Design & Switching Theory. ▪ Circuit Theory, Electric Current and Ohm's law ▪ Electrostatics ▪ Magnetic Circuits ▪ Electrical Engineering Materials ▪ Instruments and Measurements ▪ Mechanical behaviour of materials ▪ Heat transfer, Conduction & Convection ▪ DC Generators. ▪ Transformers. ▪ Transmission and Distribution Cables. ▪ High Voltage Engineering ▪ Rectifiers and Convertors.
36.	167/2026	Meteorologist (BS-17), Pakistan Meteorological Department (PMD), Ministry of Defence	Second Class or Grade 'C' Master's / Bachelor's (16 years education) degree in Meteorology / Seismology / Hydro-Meteorology / Hydrology / Geophysics / Geology / Geography / Physical Chemistry / Physics / Mathematics / Environmental Sciences / Climate Sciences / Atmospheric Sciences / Earth Sciences/ Satellite Meteorology / Remote Sensing & Geographical Information System-Geo Information / Space Sciences/ Agriculture Meteorology or equivalent qualification from a University recognize by HEC.	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II • Meteorology, • Climatology, • Basics of Physics, • Basic Maths, • Environmental Studies, • Research/Analysis.

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
37.	168/2026	Programmer (BS-17), Pakistan Meteorological Department (PMD), Ministry of Defence	Second Class or Grade 'C' Master's / Bachelor's (16 years education) degree in Computer Sciences / Information Technology / Computer Programming / Software Engineering. / Computer Information System/ Data Sciences or equivalent qualification from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring. Part-II - Fundamental Programming, - Data types, - Program Logic, - Development of Basic Algorithms, - Computer Networks and Internet, - Designing Solution & Testing, - Programming Languages including C++, Visual Basic, Python etc. - Unix/Red Hat Linux Operating System, - Multiple Browsers, - Search Engine Optimization, - Web Development
38.	169/2026	Administrative Officer (BS-17), Pakistan Meteorological Department (PMD), Ministry of Defence	Second Class or Grade 'C' Master's / Bachelor's (16 years education) degree in Management Sciences / Public Administration / Business Administration / Human Resource Management or equivalent qualification from a University recognized by the HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II - Human Resource Management - Civil Servants Act, 1973 and Rules made thereunder - Rules of Business, 1973 - Financial Management and Powers of Principal Accounting Officers Regulations, 2021 - Public Procurement Rules, 2004 - Basic Arithmetic & Computer/IT.
39.	170/2026	Workshop Engineer (BS-17), Pakistan Meteorological Department (PMD), Ministry of Defence	i. B.E / B.Sc. Engineering / equivalent qualification in Mechatronics / Mechanical/ Electrical or equivalent from a University recognized by HEC. ii. Registration with Pakistan Engineering Council (PEC).	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II - Electric Circuits - Advanced Manufacturing Design Technology - Electronic Devices and Circuits - Workshop Practice - Manufacturing Processes - Digital Logic Design - Rectifiers - Router and Armature

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
40.	171/2026	Assistant Meteorologist (BS-16), Pakistan Meteorological Department (PMD), Ministry of Defence	Second Class or Grade 'C' Master's /Bachelor's (16 years education) degree in Meteorology / Seismology / Hydro-Meteorology / Hydrology / Geophysics / Geology/ Geography / Physical Chemistry / Physics/ Mathematics / Environmental Sciences / Climate Sciences / Atmospheric Sciences / Earth Sciences / Satellite Meteorology / Remote Sensing & Geographical Information System –Geo Information / Space Sciences/ Agriculture Meteorology or equivalent qualification from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Grammar Usage, Sentence Structuring Part-II • Meteorology • Climatology • Seismology • Basics of Physics • Environmental Studies • Basic Mathematics • Basic Geology
41.	172/2026	Assistant Electronic Engineer (BS-16), Pakistan Meteorological Department (PMD), Ministry of Defence	i. B.E. / B.Sc. Engineering / equivalent qualification in Electronics/ Mechatronics/ Electrical or equivalent from a University recognized by HEC. ii. Registration with Pakistan Engineering Council (PEC).	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 Marks	Part-I Grammar Usage, Sentence Structuring Part-II • Electric Circuits • Advanced Manufacturing Design Technology • Electronic Devices and Circuits • Manufacturing Processes • Digital Logic Design • Rectifiers • Router and Armature
42.	173/2026	Assistant Director (Networking) (BS-17), Anti-Narcotics Force (ANF), M/o Interior and Narcotics Control	i. Second Class or Grade 'C' Master's degree in Computer Science / IT or equivalent qualification recognized by HEC. ii. Two (2) years post qualification experience Net Working.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar usage, Sentence Structure. Part-II • Knowledge of different Operating Systems as Windows, Linux, Mac etc. • Networks Devices, • Network IP Addressing, • Network Routing, • Network Securities, • Network Switching, • Network Management, • Troubleshooting of LAN/WAN, • Network Services, • Network Firewalls.

S. No	Case No. F.4-	Particulars of Post(s)	Qualifications/ Experience for the Posts	Test Specification	Topics of Syllabi
43.	174/2026	Inspector (BS-16), Islamabad Capital Territory Police (ICT), M/O Interior and Narcotics Control	Second Class or Grade 'C' Master's / BS / Bachelor's (16 years education) degree in any discipline or equivalent qualification from a University recognized by HEC.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II General Intelligence/ Professional Test = 80 marks	Part-I Grammar Usage, Sentence Structuring Part-II ▪ Basic Arithmetic – Algebra – Ratios – Percentages – Arithmetic Means ▪ Current Affairs. – Issues/Challenges at National and International Level during the last 5 years ▪ Pakistan Affairs – Basic Level knowledge ▪ Security Measures to Maintain Law & Order ▪ Watch & Ward Duties
44.	175/2026	Medical Officer (BS-17), PIMS, M/O National Health Services, Regulations & Coordination	MBBS or equivalent qualification recognized by Pakistan Medical & Dental Council (PMDC)	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structuring Part-II ▪ Core courses of MBBS Degree Program. ▪ Health Policies of the Government of Pakistan. ▪ Care vs Cure for Health Management. ▪ Major Challenges being faced by the Health Sector in Pakistan.

Part-I: 100 Marks (MCQ)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks

I. Basic Design / Architectural Design

Introduction to architectural design, design parameters and criteria (site, orientation, building form, and scale), design of the built environment involving simple functions and building materials. Distinction between client's brief and architect's brief, development of design concept, site analysis, functional and formal implications of a design brief, design proposals for small to medium-scale buildings to demonstrate understanding of functional relationships, materials, structures, technology, contextual issues, and climatic response inclusive of initial understanding of sustainable architecture. Projects involving multiple functions and complex spatial organizations with comprehension of issues related to project program, site selection, users needs, materials, and technology, identification of structure systems, services and engineering systems. Introduction of survey methodologies, research and documentation techniques. Large-span structures, high-rise buildings with comprehension of structure, services and engineering systems. Thermal comfort and understanding services and construction details. Design of complex buildings giving due respect to urban design and planning issues considering the social, economic, physical & technological factors.

II. Visual Communication

Freehand drawing; lettering; drafting – point, line, shape and form. Solid geometry, sectional solid geometry, orthographic projections; understanding and preparation of plans, elevations, and sections of a building. Introduction to perspectives, rendering techniques in different mediums.

III. History of Art & Architecture

Arts and architecture of the major periods of history and regions of the world: Ancient Mesopotamia, Egypt, Indus Valley, Greece, Rome, Byzantine, Gandhara, Islamic, Gothic, Renaissance, Baroque, Pre-Modern, Modern, Contemporary including Architecture in Pakistan.

IV. Theories /Criticism of Architecture

Graphic analysis of buildings and architectural complexes to develop the ability of the student to theoretically understand architectural issues which are later studied verbally in the form of architectural treatises. The model used throughout is the city which has proved throughout history to be an enduring architectural archetype.

Case No.	F.4-110/2026-R
Particulars of post	Senior Architect (BS-18), Military Engineering Service (MES), M/O Defence
Minimum Qualification / Experience	i. Second Class or Grade 'C' Master's or Bachelor's degree in Architecture / Architecture & Planning or equivalent qualification from a University recognized by the HEC / PCATP. ii. Five (5) years post qualification experience in the field of Architecture from a Public or Private Sector Organization.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks**I. Basic Design / Architectural Design**

Introduction to architectural design, design parameters and criteria (site, orientation, building form, and scale), design of the built environment involving simple functions and building materials. Distinction between client's brief and architect's brief, development of design concept, site analysis, functional and formal implications of a design brief, design proposals for small to medium-scale buildings to demonstrate understanding of functional relationships, materials, structures, technology, contextual issues, and climatic response inclusive of initial understanding of sustainable architecture. Projects involving multiple functions and complex spatial organizations with comprehension of issues related to project program, site selection, users needs, materials, and technology, identification of structure

systems, services and engineering systems. Introduction of survey methodologies, research and documentation techniques. Large-span structures, high-rise buildings with comprehension of structure, services and engineering systems. Thermal comfort and understanding services and construction details. Design of complex buildings giving due respect to urban design and planning issues considering the social, economic, physical & technological factors.

II. Visual Communication

Freehand drawing; lettering; drafting – point, line, shape and form. Solid geometry, sectional solid geometry, orthographic projections; understanding and preparation of plans, elevations, and sections of a building. Introduction to perspectives, rendering techniques in different mediums.

III. History of Art & Architecture

Arts and architecture of the major periods of history and regions of the world: Ancient Mesopotamia, Egypt, Indus Valley, Greece, Rome, Byzantine, Gandhara, Islamic, Gothic, Renaissance, Baroque, Pre-Modern, Modern, Contemporary including Architecture in Pakistan.

IV. Theories /Criticism of Architecture

Graphic analysis of buildings and architectural complexes to develop the ability of the student to theoretically understand architectural issues which are later studied verbally in the form of architectural treatises. The model used throughout is the city which has proved throughout history to be an enduring architectural archetype.

Case No.	F.4-111/2026-R
Particulars of post	Senior Interior Designer (BS-18), Military Engineering Service (MES), M/O Defence
Minimum Qualification / Experience	i. Second Class or Grade 'C' Master's or Bachelor's (4 years duration) degree in Interior Design or equivalent qualification from a University recognized by the HEC. ii. Five (5) years post qualification experience in the field of Interior Designing from a Public or Private Sector Organization.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks**I. Principles and Theory of Interior Design:**

- Principles of Interior Design.
- Interior Design Theory, Art and Graphics.
- Color Theory, Space Planning and Style.

II. Interior Design Methodology and Components:

- Basic Elements of Interior Design.
- Methodology and Components of Interior Architecture.
- Interior Drafting and Working Drawings.
- Furniture Design and Understanding.

III. Computer Applications and Software:

- Computer Applications in Interior Design.
- Interior Design Software (including AutoCAD, 3D MAX, V-Ray, Lumion and Animation).

IV. Materials, Construction and Standards:

- Construction Techniques (relevant methods and techniques for interior construction).
- Interior Design Materials and Specifications.
- Interior Design Standards, Codes and Practices.

V. Design Evolution and Trends:

- Evolution and Trends in Interior Design.
- Psychological Impacts of Interior Space Design on Occupants.
- Interior Space Plantation.
- Lighting Design.

Case No.	F.4-116/2026-R
Particulars of post	Statistician (BS-18) , AFIRM, Ministry of Defence
Minimum Qualification / Experience	i Master in Statistics from a university recognized by HEC. ii Five (5) years post qualification experience in the relevant field in any Govt. Organization.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks**I. Probability Distributions**

Discrete and continuous Probability Distributions. Properties, applications of Binomial, Poisson, Hyper-geometric, Normal Distribution and its properties, Standard Normal Curve, Normal approximation to Binomial and Poisson distribution.

II. Regression Analysis & Correlation Analysis

Concepts of Regression and Correlation and their application, Simple and Multiple Linear Regression (upto three variables), Estimation of the Parameters, Method of least square, Inference regarding regression parameters

Correlation, Correlation Coefficient, Properties of Correlation Coefficient, Inference regarding correlation coefficient, Partial Correlation and Multiple Correlation (upto three variables).

III. Sampling & Sampling Distributions

Population and Sample, Advantages of Sampling, Sampling Design, Probability & Non-Probability Sampling techniques. Brief Concepts of Simple Random, Stratified, Systematic, Cluster, Multiple and Multistage Sampling. Purposive, Quota Sampling, Convenience & Accidental Sampling.

Sampling with and without replacement, Application of Central Limit Theorem in Sampling, Sampling Distribution of Mean, difference between two Means, Proportion, difference between two Proportion and Variance.

IV. Statistical Inferences

Estimation: Point Estimation, Properties of a good Estimator. Interval Estimation. Interval Estimation of Population mean. Large and small sample confidence intervals for Population Mean.

Hypothesis Testing: Types of errors. Hypothesis Testing for Population Mean. Inferences for Two Population Means. Inferences for the Mean of Two Normal Populations using Independent Samples (variances are assumed Equal). Inference for Two Populations Mean using Paired Samples. Inferences for Population Proportions. Confidence Intervals and hypothesis Testing for Population Proportion. Inferences for Two Populations Proportions using Independent Samples, Analysis of categorized data. Goodness of fit tests. Contingency tables. Test of independence in contingency tables.

V. Design of Experiments

One-way and Two-way Analysis of Variance, Design of Experiments, Concepts of Treatment, Replication, Blocking, Experimental Units and Experimental Error, Basic Principles of Design of Experiments, Description, Layout and Statistical Analysis of Completely Randomized Design (CRD), Randomized Complete Block Design (RCBD), Multiple Comparison tests (LSD test).

Case No.	F.4-119/2026-R
Particulars of post	Deputy Director (LAB/NEQS) (BS-18), Pakistan Environmental Protection Agency (Pak-EPA), Ministry of Climate Change and Environmental Coordination.
Minimum Qualification/ Experience	i. Second Class or Grade 'C' M.Sc. in Botany / Zoology/ Chemistry/ Bio-Chemistry / Chemical Technology / Bio-Informatics / Molecular-Biology / Environmental Sciences from a University recognized by HEC. ii. Five (5) years' environment related experience in BPS-16 or above or equivalent in any of the prescribed educational qualification in Govt. / Semi-Govt. / Reputable Organization.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks

- I. Photosynthesis: Plant pigments, Light reaction, CO₂ fixation, Mechanism of photophosphorylation.
- II. Respiration: Glycolysis, Krebs cycle, Mechanism of oxidative phosphorylation.
- III. Molecular Biology: Nucleic acids, DNA as hereditary material, DNA replication, Transcription, Genetic code, Protein synthesis, Genetic engineering and its application, Genetically Modified Organisms (GMO).

- IV.** Inorganic Chemical Industries.—Sulphuric Acid, Fixation of Nitrogen, Chemical Fertilizers, Semi-conductivity devices. Cement, Glass and Ceramics.
- V.** Chemical Kinetics.—Rate law and its determination Order of reaction. Experimental methods. Temperature Dependence of rate constants. Study of mechanism of a few selected reactions (1st and 2nd under reaction only).
- VI.** Surface Chemistry and Catalysis.—Physical adsorption and chemisorption. Surface area determination. Homogeneous and Heterogeneous Catalysis. Acid-base and Enzyme Catalysis.
- VII.** Physical Organic Chemistry.—Elements of Organic reaction mechanism. Optical and Geometric Isomerism. Conformational analysis. Resonance. H—Bond and its effects on the properties of Organic Compounds.
- VIII.** Aromatic Chemistry.—Structure of Benzene with particular reference to Mechanism of Electrophilic Substitution Reactions.
- IX.** Chemistry of Natural Products.—Elementary study of Carbohydrates. Oils and Fats. Alkaloids and Vitamins.
- X.** Industrial Organic Chemistry.—Organic Polymers. Fermentation processes including preparation of Anti-Biotics. Petro-Chemical Industry.
- XI.** Environmental Pollution: Air Pollution, Water Pollution, Soil Pollution, Noise Pollution, Solid Waste, Water Logging & Salinity, Deforestation, Desertification, Eutrophication, Global and regional air pollution problems (Greenhouse effect, Global Warming/Climate Change, Ozone Depletion, Acid Rain).
- XII.** Climate Change: Climate Pattern at local, regional and global scale. Different types of climate including tropical and mid latitude climate, polar climates. Climate change processes, Drivers and Indicators of Climate Change, Effects of Climate Change on natural and societal systems. Carbon foot print. Climate change adaptation and mitigation, Clean Development Mechanism (CDM), REDD+. Global environmental politics on climate change: role of India, China and USA (Copenhagen Accord 2009).
- XIII.** Environmental Laws

Case No.	F.4-120/2026-R
Particulars of post	Deputy Director (Environmental Engineering/ Technology Transfer) (BS-18), Pakistan Environmental Protection Agency (Pak-EPA), Ministry of Climate Change and Environmental Coordination.
Minimum Qualification/ Experience	i Second Class or Grade 'C' B.Sc. engineering in Chemical / Civil / Public Health / Environment / Mechanical / Industrial Engineering from a University recognized by HEC with valid registration of Pakistan Engineering Council. OR Second Class or Grade 'C' M.Sc. in Chemistry / Botany/ Zoology / Chemical Technology / Environment Planning and Management / Bio-Chemistry from a University recognized by HEC. ii Five (5) years' post qualification experience in BS-16 or above or equivalent in any or the prescribed educational qualification in Govt. / Semi-Govt. / Reputable Organization.

Max Marks: 200

Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)

I. English (40 Marks)

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks

I. History of Environmental Thought

Environment and Sustainable Development, History of Environmental Movements, Industrial and Agriculture Revolution, United Nations Conference on Human

Environment 1972, World Summit on Sustainable Development 2002, Millennium Development Goals.

II. Sustainable Development Issues

Population growth, Poverty, Biodiversity loss and its Conservation, Energy security (energy conservation and alternative energy resources), Urbanization and sustainable cities. Food security and sustainable agriculture.

III. Interdisciplinary Nature of Environmental Science

Orientation on convergence of various social and natural sciences to evolve a new discipline of environmental science: Environmental Biology, Environmental Chemistry, Environmental Physics, Environmental Microbiology, Environmental Toxicology, Environmental Economics, Environmental Geology, Environmental Geography, Environmental Biotechnology, Environmental Sociology.

IV. Environmental Pollution

Air Pollution, Water Pollution, Soil Pollution, Noise Pollution, Solid Waste, Water Logging & Salinity, Global and regional air pollution problems (Greenhouse effect, Global Warming/Climate Change, Ozone Depletion, Acid Rain).

V. Climate Change

Climate Pattern at local, regional and global scale. Different types of climate including tropical and mid latitude climate, polar climates. Climate change processes, Drivers and Indicators of Climate Change, Effects of Climate Change on natural and societal systems. Carbon foot print. Climate change adaptation and mitigation, Clean Development Mechanism (CDM).

VI. Environmental Governance

Policy, legal and institutional frameworks for governance of environment in Pakistan: National Conservation Strategy of 1992, National Environmental Policy Act of Pakistan 2005, Environmental Protection Act of 1997, Pak-EPA (Review of IEE/EIA) Regulations 2000, Hospital Waste Management Rules 2005, Pollution Charge Rules, Sample Rules, Solid Waste Management Plan 2005, Hazardous Substances Rules 2005, National Drinking Water Policy 2009, Sanitation Policy, National Climate Change Policy 2012.

Case No.	F.4-123/2026-R
Particulars of post	2nd Engineer (Electronics) (BS-18), AFIP (GHQ Medical Directorate), Ministry of Defence
Minimum Qualification / Experience	i At least Second Class or Grade 'C' Bachelor of Engineering (Electronics) or equivalent qualification from a University recognized by the HEC / PEC. ii Five (5) years post qualification experience in the field of repairs of multi-layer printed Circuit Board / Use of specialized Diagnostic Test equipment / handling of Programmable ICs from a Private / Public Sector Organization. iii Valid registration of the P.E.C.

Max Marks: 200

Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)

I. English (40 Marks)

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks

I. Electricity & Electronics:

Electricity & Magnetism; Electrical potential, Resistance, Laws of resistance, Conductance, Conductivity, Impedance, Ohm law, Resistance in series and in parallel, practical resistors, work, power, Energy, Joule's law of electric field intensity, Gauss's Theorem, Capacitor, Capacitance, Capacitors in parallel and series. Force on a conductor in a magnetic field, electrical and magnetic circuits, leakage flux, Relation between magnetism and electricity, Induced emf, induced current and directions, Faraday's laws of electromagnetic inductions, Lenz's law, dynamically induced emf, Self inductance, mutual inductance and inductance in series/parallel,

magnetic hysteresis, Energy stored in magnetic field, Generation of alternating currents and voltages.

II. Electrical Machines:

DC Motors: Shunt, Series and Compound Motors, Speed and Torque Relations. Transformers: Principle, Construction, Voltage transformation ratio, Step-up/step-down transformers, Copper & Iron Losses, Transformer connections; delta and star.

AC Motors: Induction motor, Synchronous motor, Performance, Efficiency. Single phase and three phase Motors.

Generators: Principle, Construction, Different components of generators. AC Generators, DC Generators.

III. Electronics:

Transistors: types, calculations of voltages and currents in simple transistor circuits.

Amplifier & Oscillators: Working and classification of amplifiers, Class A and Class B Amplifiers, Feedback Amplifiers, Types of Feedback, RC Oscillators.

Integrated Circuits: OP Amps, timers, flip flop, converters, filters.

Telecommunications: EM theory, antennas, antenna gain, free space loss, fading. Modulations (AM, FM, PM, PWM, Delta, FSK, ASK, PSK), Error correction, Demodulation, Detectors, Transmitter, Receivers.

DSP and Controls; filters, stability, Z-transform, Nyquist criteria, S domain, transfer functions.

Introduction to Computing: History and evolution of computers, central processing unit, data storage, input/output devices, multimedia, operating systems, programming languages, networking, the internet, system analyses and design, management information system, electronic commerce, security and privacy issues, ethical issues and the computing profession,

IV. Power Systems:

Power network analysis, Polyphase circuits, Transients, Transmission Lines, Losses.

V. Costing, Accounting and Budgeting:

Net present value, Net future value, cash flows, auditing, income statement, balance sheet, taxation, financial risk management, cost analysis.

VI. Project Management:

Time lines, milestones, resources allocation, dependency, Gant Charts,

VII. Inventory Management:

FIFO models, LIFO models, Identification Schemes, Inventory management systems.

VIII. Quality Management Systems:

QA models. Deming, Juran Crosby, Quality circles, management responsibility, quality planning, purchasing, design process and design validation, quality audit, corrective and preventive measures.

Case No.	F.4-124/2026-R
Particulars of post	Assistant Professor (Female) (Computer Science) (BS-18), Education Department GB, M/O Kashmir Affairs and Gilgit Baltistan
Minimum Qualification / Experience	i Ph. D. degree in the relevant subject from a University recognized by the HEC. ii One years' post qualification teaching and administrative experience at a College / University level. OR i M.Phil. degree in the relevant subject from a University recognized by the HEC. ii Three (3) years' post qualification teaching and administrative experience at College / University level. OR i Second Class or Grade 'C' Master's degree in the relevant subject from a University recognized by the HEC. ii Five (5) years' post qualification teaching and administrative experience at College / University level.

Max Marks: 200

Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I (For all Categories): 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. Teaching Methodology (60 Marks)

- Teaching Methodology
- Elements of Curriculum.
- Curriculum Development Process:
- Classroom Communication
- Classroom Assessment and Evaluation
- Types of Test and characteristics of a Good Test
- Research Instruments

Part-II: 100 Marks (MCQ) (Computer Science)**I. Computer Architecture**

Microprocessor Bus Structure (Address/Data/Control), Registers and Flags, Storage Hierarchy (Main/Virtual/ Cache/ Secondary memory), Peripheral communication, CPU, ALU, Principles of Instruction Set Design, Multiprocessors & Thread Level Parallelism.

II. Object Oriented Programming

Data types, control structures, functions, arrays, classes, methods, object and encapsulation; constructors and destructors

III. Data Structure and Algorithms

Stack and Queue, Sequential Search, Binary Search, Bubble sort, Merge sort, Quick sort, Insertion sort, Selection Sort, Linked Lists

IV. Database Management Systems

Database design, functional dependencies and normal forms, concurrency control and recovery techniques, Database security and authorization

V. Computer Communications and Networks

Asynchronous and Synchronous transmission, LAN/WAN/MAN, Network layers, Transport layer protocols TCP/IP, UDP,

VI. Operating Systems

Process and CPU management, Multithreading, Deadlocks, Memory management and virtual memory, External Fragmentation, Paging and Demand Paging, File management systems, Scheduling and dispatch, Introduction to concurrency

Case No.	F.4-127/2026-R
Particulars of post	Deputy Commandant (BS-19 plus Rs. 100 Special Pay), Pakistan Marine Academy, M/o Maritime Affairs
Minimum Qualification / Experience	i Certificate of Competency or Certificate of service as Master of Foreign-going ship or as First Class Engineer. ii At least Five (5) years post qualification experience of Command or as Chief Engineer or ships. iii At least Five (5) years post qualification experience of organizing training in training ships and training establishment.

Max Marks: 200

Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)

I. English (40 Marks)

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks

- I. Core Courses of Certificate of Competency as **Master Foreign Going Ships/First Class Engineer**
- II. Pakistan Merchant Shipping Ordinance, 2001
- III. Mercantile Shipping (Safety Convention Certificate) Rules 1967.
- IV. Port Act 1908 (Relevant Portion)
- V. Lighthouse Act 1927
- VI. Human Resource and Financial Management
- VII. Secretariat Instructions and Office Procedures

Case No.	F.4-128/2026-R
Particulars of post	Director General (Chief Librarian) (BS-20) , National Library of Pakistan, National Heritage & Culture Division.
Minimum Qualification / Experience	i Second class or Grade 'C' Master's degree in Library Science or Library and Information Science or equivalent qualification from a University recognized by HEC. ii Seventeen (17) years post qualification experience in the relevant field.

Max Marks: 200Qualifying Standard: 50%

(Note: Negative marking of 0.25 per wrong answer)

Part-I: 100 Marks (MCQ) (For all categories)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. Constitution/Rules (60 Marks)

- Constitution of Pakistan
- Rules of Business
- Civil Servants Act & rules made thereunder
- General Financial Rules, 2025
- Financial Management and Powers of Principal Accounting Officers Regulations, 2021

Part-II (Professional): 100 Marks (MCQ)**I. Use of Emerging Technologies in Library**

Information and other Library Technologies. Hardware. Software. Operating System. Telecommunications and Networks. Internet and the www, Barcode Technology, Wireless Technology and Virtual Private Network (VPN). Social Networking. Email. Word Processing. Spreadsheets. Presentation Software. Desktop Publishing. Databases. Library Security Systems. Tele-lifts. Digitization Hardware and Software. Reprographic Technology.

II. Organization of Information

Systems for Organization of Information: Environments, Storage and Retrieval Tools, Encoding Standards, Cataloguing Codes, Current Systems. The Information Organization Process: Surrogate/ Metadata Records: Description, Access; Authority Control. Subject Access: Analysis, Verbal Subject Approaches, Classification. Organization and Administration: Arrangement, Management Issues. Problems of Information Organization in Pakistan.

III. Basic Reference Sources

Definition. Evaluation Criteria. Bibliographies-- General Bibliographies, Basic Guides To Reference Materials, Library Catalogues; Serials Guides; Indexes and Abstracts; HEC NDL; Dictionaries and Thesauri; Almanacs And Fact Books; Encyclopaedias; Directories;

Biographical Sources; Geographical Sources-- Maps, Atlases & Gazetteers; Reference Websites.

IV. Management of Library and Information Services

Basic Theories and Principles of Administration for Effective Management of Public, Academic, and Special Libraries and Information Centres with emphasis on Planning, Organizing, Staffing, Directing, Coordinating, Reporting, and Budgeting. Administrative Aspects of Public and Technical Services, Facilities, Rules and Regulations, Evaluation, Public Relations, Inter-Agency Cooperation, and Change Management. Library Space Management.

V. Governance & Public Administration:

Principles of Public Administration, Bureaucratic System & Reforms, E-governance and digital transformation, Policy formulation and implementation, Ethics, Accountability and Transparency, Nature and Scope of Public Administration, Role of Public Administration in Welfare State;

VI. Human Resource and Financial Management

Definition, Significance and Scope of Human Resource Management; Organization—Types of Organization, Theory of Organization, Principles of Organization, Organization of the Federal and Provincial Governments, Public Sector Enterprises; Approaches to Human Resource Management. Personnel Administration—Tools of Personnel Management: Selection, Training, Promotion, Compensation, Discipline; Communication, Communication Channels and Principles of Public Relations; Human Behaviour and Organizations Administration.—Elements of Financial Administration, Performance Programmed Budgeting, Capital Budget, Principles of Budgeting, Auditing and Accounting.

VII. Secretariat Instructions and Office Procedures

Case No.	F.4-129/2026-R
Particulars of post	Director General (BS-20), Board of Investment, Prime Minister's Office
Minimum Qualification & Experience:	i Second Class or Grade 'C' Master's degree or equivalent in one of the following subject:- Economics / Commerce / Business Administration / Public Administration / Physics / Chemistry / International Relations / Chemicals / Electronics / Mechanical Engineering. ii Seventeen (17) years post qualification experience in BS-17 and above or equivalent in Industrial Production / Financial and economic analysis of investment proposals / Marketing, Management Development / Economic Policy and Planning / Industrial Policy Investment Promotion in Commercial/ Industrial Government / Semi Government Organizations / Private firms of repute.

Max Marks: 200

Qualifying Standard: 50%

(Note: Negative marking of 0.25 per wrong answer)

Part-I: 100 Marks (MCQ) (For all categories)

I. English (40 Marks)

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. Constitution/Rules (60 Marks)

- Constitution of Pakistan
- Rules of Business
- Civil Servants Act & rules made thereunder
- General Financial Rules, 2025
- Financial Management and Powers of Principal Accounting Officers Regulations, 2021

Part-II (Professional): 100 Marks (MCQ)

I. Public Policy Formulation and Implementation

- The Policy Making Process: How Policies are Made (Six stages including diagnosis and six stages with cautions to be exercise at each stage)
- Policy Implementation & Role of Bureaucracy (Training, Pervasive Inertia and how to break it, Lack of Decision Making, Culture of postponement and delays, Lack of resources, Political interference, Ability to say "No.")
- Policy Analysis, The Quest for Solutions (Lack of research in policy analysis, Lack of coordination among departments, secrecy, openness)
- Policy Evaluation: Assessing The Impact of Public Policy, Program Evaluation-Success and failure of Govt.

II. Act, Ordinance, Rules etc. Relating to Investment

- Special Economic Zones Act, 2012
- Special Economic Zones Rules, 2013
- Board of Investment Ordinance, 2001
- Foreign Private Investment (Promotion & Protection) Act, 2022
- Economic Indicators (Latest Pakistan Economic Survey)

III. Human Resource and Financial Management

Definition, Significance and Scope of Human Resource Management; Organization—Types of Organization, Theory of Organization, Principles of Organization, Organization of the Federal and Provincial Governments, Public Sector Enterprises; Approaches to Human Resource Management. Personnel Administration—Tools of Personnel Management: Selection, Training, Promotion, Compensation, Discipline; Communication, Communication Channels and Principles of Public Relations; Human Behaviour and Organizations Administration.—Elements of Financial Administration, Performance Programmed Budgeting, Capital Budget, Principles of Budgeting, Auditing and Accounting.

IV. Governance & Public Administration:

Principles of Public Administration, Bureaucratic System & Reforms, E-governance and digital transformation, Policy formulation and implementation, Ethics, Accountability and Transparency, Nature and Scope of Public Administration, Role of Public Administration in Welfare State;

V. Basic Concept of Quality Management

ISO-9000, ISO-13000, other certifications regarding quality measurement; management, management for Results, Setting Performance Goals and Targets; Job Analysis: Job Description, Job Specification, Performance Evaluation;

Case No.	F.4-130/2026-R
Particulars of post	Director (BS-19) , Board of Investment, Prime Minister's Office
Minimum Qualification & Experience:	i. Second Class or Grade 'C' Master's or Bachelor's (4 years duration) degree in Economics / Commerce / Business Administration / Public Administration / Public Policy / Governance & Public Policy / International Trade / International Relations / Political Economy / Corporate Law or equivalent qualification from a University recognized by the HEC. ii. Twelve (12) years post qualification experience in BS-17 and above or equivalent in Industrial Production / Financial Economic Analysis or Investment proposals / Marketing Management Development / Economic Policy and Planning / Industrial Policy / Investment Promotion in Commercial / Industrial areas from a Government / Public / Private Sector Organization.

Max Marks: 200

Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)

I. English (40 Marks)

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks

I. Public Policy Formulation and Implementation

- The Policy Making Process: How Policies are Made (Six stages including diagnosis and six stages with cautions to be exercise at each stage)

- Policy Implementation & Role of Bureaucracy (Training, Pervasive Inertia and how to break it, Lack of Decision Making, Culture of postponement and delays, Lack of resources, Political interference, Ability to say “No.”)
- Policy Analysis, The Quest for Solutions (Lack of research in policy analysis, Lack of coordination among departments, secrecy, openness)
- Policy Evaluation: Assessing The Impact of Public Policy, Program Evaluation- Success and failure of Govt.

II. Act, Ordinance, Rules etc. Relating to Investment

- Special Economic Zones Act, 2012
- Special Economic Zones Rules, 2013
- Board of Investment Ordinance, 2001
- Foreign Private Investment (Promotion & Protection) Act, 2022
- Economic Indicators (Latest Pakistan Economic Survey)

III. Human Resource and Financial Management

Definition, Significance and Scope of Human Resource Management; Organization—Types of Organization, Theory of Organization, Principles of Organization, Organization of the Federal and Provincial Governments, Public Sector Enterprises; Approaches to Human Resource Management. Personnel Administration—Tools of Personnel Management: Selection, Training, Promotion, Compensation, Discipline; Communication, Communication Channels and Principles of Public Relations; Human Behaviour and Organizations Administration.—Elements of Financial Administration, Performance Programmed Budgeting, Capital Budget, Principles of Budgeting, Auditing and Accounting.

IV. Basic Concept of Quality Management

ISO-9000, ISO-13000, other certifications regarding quality measurement; management, management for Results, Setting Performance Goals and Targets; Job Analysis: Job Description, Job Specification, Performance Evaluation;

Case No.	F.4-131/2026-R
Particulars of post	Deputy Director (BS-18), Board of Investment, Prime Minister's Office
Minimum Qualification & Experience:	i Second Class or Grade 'C' Master's degree or equivalent in one of the following subject:- Economics / Commerce / Business Administration / Public Administration / International Relations / Political Economy / Corporate Law or equivalent qualification from a University recognized by the HEC. ii Five (5) years post qualification experience in BS-17 and above or equivalent in Industrial Production / Financial Economic Analysis or Investment proposals / Marketing Management Development / Economic Policy and Planning / Industrial Policy / Investment Promotion in Commercial / Industrial areas from a Government / Public / Private Sector Organization.

Max Marks: 200

Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)

I. English (40 Marks)

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks (MCQ)

I. Public Policy Formulation and Implementation

- The Policy Making Process: How Policies are Made (Six stages including diagnosis and six stages with cautions to be exercise at each stage)

- Policy Implementation & Role of Bureaucracy (Training, Pervasive Inertia and how to break it, Lack of Decision Making, Culture of postponement and delays, Lack of resources, Political interference, Ability to say “No.”)
- Policy Analysis, The Quest for Solutions (Lack of research in policy analysis, Lack of coordination among departments, secrecy, openness)
- Policy Evaluation: Assessing The Impact of Public Policy, Program Evaluation- Success and failure of Govt.

II. Act, Ordinance, Rules etc. Relating to Investment

- Special Economic Zones Act, 2012
- Special Economic Zones Rules, 2013
- Board of Investment Ordinance, 2001
- Foreign Private Investment (Promotion & Protection) Act, 2022
- Economic Indicators (Latest Pakistan Economic Survey)

III. Human Resource and Financial Management

Definition, Significance and Scope of Human Resource Management; Organization—Types of Organization, Theory of Organization, Principles of Organization, Organization of the Federal and Provincial Governments, Public Sector Enterprises; Approaches to Human Resource Management. Personnel Administration—Tools of Personnel Management: Selection, Training, Promotion, Compensation, Discipline; Communication, Communication Channels and Principles of Public Relations; Human Behaviour and Organizations Administration.—Elements of Financial Administration, Performance Programmed Budgeting, Capital Budget, Principles of Budgeting, Auditing and Accounting.

IV. Basic Concept of Quality Management

ISO-9000, ISO-13000, other certifications regarding quality measurement; management, management for Results, Setting Performance Goals and Targets; Job Analysis: Job Description, Job Specification, Performance Evaluation;

Case No.	F.4-134/2026-R
Particulars of post	Deputy Armament Supply Officer (BS-18) , Naval Headquarters, Ministry of Defence.
Minimum Qualification / Experience	i Second Class or Grade 'C' Master's degree in Chemistry/Physics. ii Five (5) years post qualification experience in Explosives/ Dangerous Cargoes/ Petroleum/ Oils/ Lubricants.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks (MCQ)**Chemistry: 50 Marks**

- I. Atomic structure.—Quantum theory, Schrodinger equation, Particle in box, hydrogen atom. Hydrogen moleculeion, hydrogen molecule. Theories of hydrogen and metallic bonding.
- II. Electrochemistry.—Ionic equilibria, theory of strong electrolytes; ebye-Huckel theory of activity coefficients, galvanic cells, membrane equilibria and fuel cells. Theories of Acids and Bases, glass electrode, measurement of pH. Electrolysis, overvoltage and corrosion.
- III. Thermodynamics.—First law of thermodynamics, internal energy, enthalpy

functions. Thermochemistry, Entropy and second law of Thermodynamics, Free energy and chemical equilibrium.

- IV. Chemistry of Following Elements.—Oxygen, Carbon, Chlorine, Silicon, Nitrogen, Phosphorus.
- V. Inorganic Chemical Industries.—Sulphuric Acid, Fixation of Nitrogen, Chemical Fertilizers, Semi-conductivity devices. Cement, Glass and Ceramics.
- VI. Industrial Organic Chemistry.—Organic Polymers. Fermentation processes including preparation of Anti-Biotics. Petro-Chemical Industry.

Physics: 50 Marks

I. Mechanics

- Vectors—Dots, Cross and triple products, Gradient, divergence and applications.
- Newtonian laws of motion; calculus based approach to kinematics, forces and dynamics, conservation law of energy; conservation of linear and angular momentum; Dynamics of rigid body; spin and precession; gyroscope; Gravitation; planetary motion and satellites; Kepler's laws; centripetal forces
- Special theory of relativity. Michelson—Morley experiment and Einstein's postulates; Lorentz transformation; time dilation and length contraction; equivalence of mass and energy.

II. Fluid Mechanics

Surface tension; Viscosity; Elasticity; fluid motion and Bernoulli's theorem.

III. Heat and Thermodynamics

Perfect gas and Vander Waals equation; Three Laws of Thermodynamics, internal energy, temperature, entropy. Thermal properties of Simple system production and measurement of low temperatures; kinetic theory of gases; Maxwellian distribution of molecular velocities; Brownian motion; Transport phenomena. Classical Maxwell-Boltzmann Statistics and its application; Quantum Bose—Einstein and Fermi—Dirac Statistics.

IV. Electricity and Magnetism

Electric field due to point charges, Gauss' law Electric potential and Poisson and Laplace's equation Dielectric medium and Polarization; Capacitance; Moving charges and resulting magnetic field; Ampere's law; Vector potential; Magnetic properties of matter; Transient current; Faraday's law of electromagnetic induction; Alternating current and LRO circuit. Maxwell's equations; Poynting theorem and Poynting Vector. Maxwell's equations in integral and differential form.

V. Solid State Physics

Crystal lattice and structure, Bravais lattice, free electron model, Band theory and electron in a periodic potential, Fermi energy and density of states, n and p type semiconductors, physics of the transistor and MOSFET, dielectric properties, magnetic properties and origin of magnetism.

VI. Nuclear Physics

Structure of Nuclei; Radioactivity. Methods of detection, Mass Spectrometer. Accelerators. Phenomenon of fission; reactor and nuclear power, nuclear fusion and its application, Elementary particles and their properties.

Case No.	F.4-135/2026-R
Particulars of post	Dean (CIV) (BS-20), Pakistan Navy, Ministry of Defence
Minimum Qualification / Experience	i Ph.D. or MS / M.Phil /Master's or Bachelor's (16 years education) degree in Mechanical Engineering / Information Technology / Computer Sciences / Software Engineering / Management Sciences or equivalent qualification from a university recognized by HEC/ PEC. ii 13 years post qualification teaching or research experience in case of Ph.D. degree holder or 15 years post qualification teaching or research experience in case of MS / M.Phil degree holder or 17 years post qualification teaching or research experience in case of Master / Bachelor degree holder iii 04 research publications in HEC / PEC recognized journals.
Categories	A. Information Technology / Computer Sciences / Software Engineering B. Management Sciences C. Mechanical Engineering

Max Marks: 200Qualifying Standard: 50%

(Note: Negative marking of 0.25 per wrong answer)

Part-I: 100 Marks (MCQ) (For all categories)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. Constitution/Rules (60 Marks)

- Constitution of Pakistan
- Rules of Business
- Civil Servants Act & rules made thereunder
- General Financial Rules, 2025
- Financial Management and Powers of Principal Accounting Officers Regulations, 2021

Part-II (Professional): 100 Marks (MCQ)**(For Information Technology / Computer Sciences / Software Engineering)****I. Computer Architecture**

Microprocessor Bus Structure (Address/Data/Control), Registers and Flags, Storage Hierarchy (Main/Virtual/ Cache/ Secondary memory), Peripheral communication, CPU, ALU, Principles of Instruction Set Design, Multiprocessors & Thread Level Parallelism.

II. Object Oriented Programming

Data types, control structures, functions, arrays, classes, methods, object and encapsulation; constructors and destructors

III. Data Structure and Algorithms

Stack and Queue, Sequential Search, Binary Search, Bubble sort, Merge sort, Quick sort, Insertion sort, Selection Sort, Linked Lists

IV. Database Management Systems

Database design, functional dependencies and normal forms, concurrency control and recovery techniques, Database security and authorization

V. Computer Communications and Networks

Asynchronous and Synchronous transmission, LAN/WAN/MAN, Network layers, Transport layer protocols TCP/IP, UDP,

VI. Operating Systems

Process and CPU management, Multithreading, Deadlocks, Memory management and virtual memory, External Fragmentation, Paging and Demand Paging, File management systems, Scheduling and dispatch, Introduction to concurrency

Part-II (Professional): 100 Marks (MCQ) (For Management Sciences)

I. General Management & HR

- **Principles of Management:** Functions of management (Planning, Organizing, Leading, Controlling), Henry Fayol's 14 principles, and organizational structures.
- **Human Resource Management (HRM):** Recruitment, selection, performance appraisal, training & development, and compensation management.
- **Organizational Behavior (OB):** Group dynamics, leadership styles, motivation theories, and conflict management.

II. Finance & Accounting

- **Financial Management:** Time value of money, capital budgeting, risk and return, and cost of capital.
- **Accounting:** Financial statements (Balance Sheet, Income Statement), ratio analysis, and basic bookkeeping principles.

III. Marketing

- **Core Concepts:** The 4 Ps of Marketing (Product, Price, Place, Promotion), market segmentation, targeting, and positioning.
- **Consumer Behavior & Strategy:** Consumer decision-making process, brand management, and marketing research.

IV. Operations & Quantitative Techniques

- **Operations Management:** Supply chain, inventory control (EOQ models), and project management (PERT/CPM).
- **Quantitative Methods:** Linear programming, decision theory, and probability distributions.

V. Business Communication & MIS

- **Communication:** The 7 C's of business communication, report writing, and presentation skills.
- **Management Information Systems (MIS):** Basics of database management, enterprise systems (ERP), and e-commerce fundamentals.

VI. Mathematics & Statistics

- **Business Math:** Simple and compound interest, ratios, proportions, and basic algebra.
- **Statistics:** Measures of central tendency (mean, median, mode), dispersion, regression, and correlation analysis.

Part-II (Professional): 100 Marks (MCQ)
(For Mechanical Engineering)

I. Mechanics and Strength of Materials

Concept of Stress and Strain, bending, torsion, geometric properties of areas, principal stresses, Tensile testing, Stress- Strain curve, Difference between Engineering and True Stress & Strain, Shear Stress & Strain, Concept of elastic and plastic deformation, Yield & ultimate Tensile strengths, Elongation, Toughness and Resilience, Ductility and Malleability, Hardness Testing, Brinell and Rock well Hardness test, bending moment,

II. Fluid Mechanics

Properties and basics of fluid mechanics, loss of head, power transformation by fluids, pumps, turbines. Fluid static's, Fluid dynamics, Types of flow: Turbulent and Laminar, Reynold's number.

III. Heat and Thermodynamics

Perfect gas and Vander Waals equation; Three Laws of Thermodynamics, internal energy, temperature, entropy. Thermal properties of Simple system production and measurement of low temperatures; kinetic theory of gases; Maxwellian distribution of molecular velocities; Brownian motion, Transport phenomena. Classical Maxwell-Boltzmann Statistics and its application; Quantum Bose—Einstein and Fermi—Dirac Statistics.

IV. Manufacturing

Different manufacturing processes like Casting, Forging, Machining, Rolling, Extrusion, Wire-drawing, welding, Turning (lathe), Milling, Shaping, Gear cutting, Drilling, Fitting.

Case No.	F.4-136/2026-R
Particulars of post	Security Officer (BS-18), National Library of Pakistan, National Heritage & Culture Division
Minimum Qualification / Experience	i. Second class or Grade 'C' Master's degree or equivalent qualification from a University recognized by HEC. ii. Five (5) years post qualification experience of security work in supervisory capacity in a Govt. / Semi Govt. organization or Autonomous Body.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks (MCQ)**I. Security Administration & Core Professional Knowledge**

- **Physical Security:** Access control systems, perimeter security, surveillance technologies, and barrier management.
- **Risk Management:** Threat assessment, hazard mitigation, emergency evacuation, and disaster management.
- **Intelligence & Information Security:** Principles of classified data protection, document security, and operational secrecy.

II. Security Policy & Risk Governance

- **Threat & Vulnerability Assessment:** Formulating enterprise-level risk assessment matrices and critical infrastructure protection plans.

- **National Security Frameworks:** Basic alignments with Pakistan's National Security Policy (NSP), internal security challenges, and counter-terrorism measures.
- **Crisis Leadership:** Incident command systems, disaster recovery protocols, and emergency evacuation planning for massive facilities.

III. **Advanced Security Operations & Tech**

- **Physical & Digital Security Integration:** Managing modern perimeter security, layers of access control, CCTV command networks, and electronic countermeasures.
- **VVIP & Dignitary Protocol:** Strategic route mapping, crowd management, intelligence coordination, and logistical security layout for high-profile assets and officials.
- **Information & Document Security:** Protecting official secrets, handling classified state documents, and preventing espionage.

Case No.	F.4-140/2026-R
Particulars of post	General Duty Medical Officer (BS-18), Armed Forces Bone Marrow Transplant Centre, M/o Defence
Minimum Qualification / Experience	i) MBBS degree from any University / Institute recognized by the PMDC. ii) Five (5) years post qualification experience in the relevant field from a public / private sector organization of repute. iii) Valid Registration with PMDC.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)Core Courses of **MBBS****Part-II: 100 Marks (MCQ)**Core courses of **General Medicine**

Case No.	F.4-149/2026-R
Particulars of post	General Staff Officer, Grade-I (Bio Medical Officer) (BS-19), Armed Forces Institute of Radiology and Imaging, Ministry of Defence.
Minimum Qualification & Experience:	i. Second Class or Grade 'C' Master's / Bachelor's (4 years duration) degree in Bio-medical / Electrical Engineering or equivalent qualification from a University recognized by HEC. ii. Twelve (12) years post qualification working experience at any renowned medical / imaging set up with hands on experience in CT Scan / MRI equipment.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks (MCQ)**1. Biomechanics**

- **Dynamics:** Rectilinear and curvilinear motion, Simple harmonic motion, Simple and multiple degrees of freedom, Application of these motions in human body and Biomedical machines.
- **Fluid Mechanics:** Basic concepts of Fluid Mechanics, Hydrodynamic lubrication of natural and normal synovial joints.
- **Biomedical Applications:** Mechanical properties of biological tissues and tissue mechanics, cardiac mechanics and modeling, muscle mechanics, gait kinetics, kinematics and analysis. Stress analysis and application to musculoskeletal system.

2. Bio-Instrumentation

- **Biological Systems:** Study of various Physiological systems, related biopotentials and physiological parameters.
- **Diagnostic Equipment:** invasive and noninvasive measurement techniques and related equipments.
- **Cardiovascular Measurements:** Electrocardiography, Measurement of Blood pressure, Blood flow and Cardiac output.
- **Biomedical Sensors & Transducers:** Introduction, principles, theory, design and applications.
- **Patient Monitoring Equipment:** Patient Monitors, central monitoring system, telemetry system, Gas Exchange and distributions, Respiratory therapy equipment.
- **Therapeutic Equipment:** ventilator, inhaler, defibrillator, pacemaker and heart lung machines.
- **Radiological Equipment:** concept of ionization and nonionization radiation and related equipment, medical lasers and applications.
- **Safety in Medical Equipment:** Electrical/Mechanical safety, Standards of Medical Devices, Biohazards and Safety Regulations.

3. Medical Imaging:

- **X-ray Imaging:** Physics of X-ray, Imaging with X-ray, Radiation dose, Attenuation based X-ray Imaging, X-ray Detection, X-ray Image Quality, Diagnostic Applications of X-ray Imaging, Demonstration of X-rays Equipment.
- **Principles of Computed Tomography:** Introduction to Computed Tomography and Scanners, Attenuation Tomography, Time of Flight Tomography, Reflection Tomography, Diffraction Tomography, Formulation of Attenuation Computed Tomography, Fourier Slice theorem
- **Magnetic Resonance Imaging:** Physical and physiological principle of Magnetic Resonance Imaging, MR Imaging, Formulation of MRI reconstruction, Functional MRI, BOLD MRI, Applications of MRI and fMRI
- **Positron Emission Tomography:** Physical and physiological principles of PET, PET Signal Acquisition, PET Image formation, Significance of PET, Applications of PET

Case No.	F.4-151/2026-R
Particulars of post	Comptroller (BS-18), Ministry of Foreign Affairs.
Minimum Qualification & Experience:	i. Second Class or Grade 'C' Master's degree from a recognized University by Higher Education Commission. ii. Five (5) years post qualification experience in the field of administration and management of reputed Hotels / Hostels / lodges.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks (MCQ)

- I. Financial Management
- II. Public Administration
- III. Budgeting and Budgetary Control
- IV. Office Management
- V. Public Procurement Rules (PPRA) 2004
- VI. General Financial Rules, 2025
- VII. Financial Management and Powers of Principal Accounting Officers Regulations, 2021
- VIII. Civil Servants Act & Rules
- IX. Secretariat Instructions
- X. Management of Government Hostels/ lodges

Case No.	F.4-152/2026-R	
Particulars of post	Professor (BS-20), Pakistan Institute of Medical Sciences (PIMS), Islamabad, M/O National Health Services, Regulations and Coordination.	
Minimum Qualification & Experience:	i MBBS or equivalent Medical qualification recognized by PMDC. OR M.Sc. of a recognized University in case of Basic Science in the relevant subject (for non-medical graduates). ii D.Sc., Ph.D., FCPS., M.D., M.S., M.Phil etc. in the respective subjects. FCPS/ M.D. with D.P.H. (for Public Health Institutions only). OR Equivalent qualification recognized by PMDC. POST QUALIFICATION EXPERIENCE: Three years teaching experience as an Associate Professor in the respective subject provided that total experience as Assistant Professor / Associate Professor is not less than eight years in a postgraduate institute. OR Nine years as Assistant Professor or four years teaching experience as Associate Professor in under graduate institute provided that total experience as Assistant Professor/ Associate Professor is not less than twelve years in under graduate institute. RESEARCH: Must have produced at least two research papers during three years as Associate Professor provided that total research papers as Assistant Professor/ Associate Professor are not less than five. OR At least three research papers during Associate Professorship provided that total research papers as Assistant Professor/ Associate Professor are not less than seven if experience is in under Graduate Medical college. NOTE: (a) For all Basic Science subjects a non-medical is eligible provided a medical graduate with requisite qualification is not available. (b) For appointment as a Professor, candidates possessing a D.Sc. / Ph.D. degree, the thesis or major subjects/ courses should be related to the subject in which they are appointed. (c) Candidates without a basic medical qualification are eligible for appointment as Professor provided they possess at least D.Sc. / Ph.D. degree and provided a medical graduate with the requisite qualification is not available.	
Categories	Categories	Respective Subject / Specialties
	A Cardiac Surgery	Cardiac Surgery
	B Dermatology	Dermatology
	C Emergency Medicine	Emergency Medicine
	D Neonatology	Neonatology
	E Paediatric Surgery	Paediatric Surgery
	F Pulmonology	Pulmonology

Max Marks: 200

Qualifying Standard: 50%

(Note: Negative marking of 0.25 per wrong answer)

Part-I: 100 Marks (MCQ) (For all categories)**III. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases

- Synonyms/ Antonyms
- Translation

IV. Constitution/Rules (60 Marks)

- Constitution of Pakistan
- Rules of Business
- Civil Servants Act & rules made thereunder
- General Financial Rules, 2025
- Financial Management and Powers of Principal Accounting Officers Regulations, 2021

Part-II (Professional): 100 Marks (MCQ) (For Cardiac Surgery)

- I. Core Courses of **MBBS** (50 Marks)
- II. Core courses of Specialization in **Cardiac Surgery** (50 Marks)

Part-II (Professional): 100 Marks (MCQ) (For Dermatology)

- I. Core Courses of **MBBS** (50 Marks)
- II. Core courses of Specialization in **Dermatology** (50 Marks)

Part-II (Professional): 100 Marks (MCQ) (For Emergency Medicine)

- I. Core Courses of **MBBS** (50 Marks)
- II. Core courses of Specialization in **Emergency Medicine** (50 Marks)

Part-II (Professional): 100 Marks (MCQ) (For Neonatology)

- I. Core Courses of **MBBS** (50 Marks)
- II. Core courses of Specialization in **Neonatology** (50 Marks)

Part-II (Professional): 100 Marks (MCQ) (For Pediatric Surgery)

- I. Core Courses of **MBBS** (50 Marks)
- II. Core courses of Specialization in **Pediatric Surgery** (50 Marks)

Part-II (Professional): 100 Marks (MCQ) (For Pulmonology)

- I. Core Courses of **MBBS** (50 Marks)
- II. Core courses of Specialization in **Pulmonology** (50 Marks)

Case No.	F.4-156/2026-R
Particulars of post	Deputy Director (BS-18), Survey of Pakistan, Ministry of Defence.
Minimum Qualification & Experience:	M.Phil. degree in 'Remote Sensing & Geographical Information System' / 'Geospatial Science' from a University recognized by the HEC with three (03) years' post qualification experience in the field of Surveying/ Mapping. OR Second Class or Grade 'C' Master's or Bachelor's (4 years' education) degree in Geography/ Physics/ Geophysics/ Mathematics from a University recognized by the HEC with five (5) years' post qualification experience in the field of Surveying/ Mapping. OR Bachelor's degree in Civil Engineering/ Geoinformatics/ Geomatics (GIS/RS) from a University recognized by the HEC/ PEC with five (5) years post qualification experience in the field of Surveying/ Mapping.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks (MCQ)

I. Geographical Information System

Definitions, key components, functional subsystem, Raster data model, vector data model, attribute data model, Data acquisition techniques, data sources, data capturing techniques and procedures, data transformation, visualization of spatial data, layers and projections and datums

Map design: symbols to portray points, lines, polygons and volumes, graphic variables, visual hierarchy, Data classification graphic approach, mathematical approach.

Spatial analysis: neighbourhood functions, network, and overlay analysis, buffering, spatial data quality: components of data quality, micro level components, macro level components, usage components, sources of errors, accuracy and resolution and uncertainty.

II. Remote Sensing

- History and Development
- Concepts and Foundation of Remote Sensing
- Electromagnetic spectrum
- Types of Remote Sensing Systems
- Types of Satellites
- Ground Receiving Stations (Reception of Data)
- Remote Sensing in Pakistan: Potential and Prospects

III. Land Surveying

- Instrumental survey and records
- Surveying using the following instruments:
 - ✓ Chain survey
 - ✓ Prismatic Compass
 - ✓ Determination of heights and slopes with Abney Level
 - ✓ Contouring by Indian Clinometer
 - ✓ Use of Dumpy level and Theodolite
 - ✓ Total station
 - ✓ Global Positioning System (GPS)

IV. Human Resource and Financial Management

Definition, Significance and Scope of Human Resource Management; Approaches to Human Resource Management. Personnel Administration—Tools of Personnel Management: Selection, Communication Channels and Principles of Public Relations; Elements of Financial Administration, Principles of Budgeting,

V. Basic Concept of Quality Management

ISO-9000, ISO-13000, other certifications regarding quality measurement; management, management for Results, Setting Performance Goals and Targets; Job Analysis: Job Description, Job Specification, Performance Evaluation;

Case No.	F.4-157/2026-R
Particulars of post	Editor (BS-18), GHQ, Ministry of Defence
Minimum Qualification & Experience:	i. Second Class or Grade 'C' Master's degree in Journalism / Urdu / Mass Communication / Public relations. ii. Five (5) years post qualification Journalistic experience in a News Agency or Newspaper of repute. iii. Ability to write and contribute articles in English and Urdu.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks (MCQ)**I. Public Relations:**

Concept of Public Relations, Historical development of public relations, Public relation in Pakistan, Press Information Department (PID), Public relations and publicity, PR as a tool for governance, Basic methods of PR: press release, press note, press conference, PR Ethics

II. Basic models in Mass Communication: -

Lasswell's Model (1948), Shannon-Weaver model (1948), Osgood's model (1954), Schramm's model (1954), Newcomb's symmetry theory (1953), Westley-McLean's model (1976), Gerbner model (1956)

III. Mass Communication Theories

Normative theories of the press: Schramm's four theories and criticism on these theories, Media as agents of power,

IV. Media and Society

Mass media and social change, Media as a social system: The balance between interrelation and interdependence, Media freedom and its role for democracy, the functional approach to mass media: four social functions of the media, Media as an awareness agent, Mass media and social representation

V. Mass Media in Pakistan:

Media system in Pakistan: historical, chronological, and analytical review, the system of journalism and the media system, Government-press relations, the new 24/7 television: uses and abuses, The question of freedom and responsibility

VI. Media Laws and Ethics:

Development of media regulations from British colonial era to independent Pakistan, Libel, Defamation and relevant portions of PPC, PPO, RPPPO, PEMRA: establishment, development, and operational mechanisms, Press Council of Pakistan (PCP), Citizens Media Commission: need, present status, and reasons for inactivity, Press Code of Ethics, Inability of the media to develop a code of ethics as an institution, The media's quest for freedom and its inability to self regulate.

Case No.	F.4-164/2026-R
Particulars of post	Director / Principal Meteorologist (BS-19) Pakistan Meteorological Department (PMD), Ministry of Defence
Minimum Qualification & Experience:	i. Ph.D. or M.Phil / MS or Second Class or Grade 'C' Master's / Bachelor's (16 years education) degree in Meteorology / Seismology / Hydro-Meteorology / Hydrology / Geophysics / Geology / Geography / Physical Chemistry / Physics / Mathematics / Environmental Sciences / Climate Sciences/ Atmospheric Sciences / Earth Sciences / Satellite Meteorology / Remote Sensing & Geographical Information System-Geo-Information / Space Sciences / Agriculture Meteorology or equivalent qualification from a University recognized by HEC. ii. Eight (8) years post qualification experience in case of Ph.D. or Ten (10) years post qualification experience in case of M.Phil. / MS, or Twelve (12) years post qualification experience in case of aforesaid Master's / Bachelors' degree, in the field of relevant educational subject / qualification in BS-17 and / or above or equivalent form a Public / Private Sector organization.

Max Marks: 200

Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks (MCQ)**I. Earth's Atmosphere:**

Composition of gases, vertical thermal layers (troposphere, stratosphere, mesosphere, thermosphere).

- II. Atmospheric Temperature & Heat Transfer**
Solar and terrestrial radiation, conduction, convection, standard lapse rates, and temperature inversions.
- III. Atmospheric Pressure & Winds**
Barometric pressure, isobars, pressure gradient force, Coriolis effect, geostrophic wind, and local/global wind systems (monsoons, land/sea breezes).
- IV. Humidity, Condensation & Clouds**
Absolute/relative humidity, dew point, adiabatic processes (DALR and SALR), fog formation, and cloud classification (cirrus, cumulus, stratus, cumulonimbus).
- V. Precipitation & Weather Systems**
Rain, snow, hail, air masses, cold/warm/occluded fronts, mid-latitude cyclones, and severe weather (tornadoes, tropical cyclones/hurricanes).
- VI. Instruments & Weather Observation**
Barometers, anemometers, hygrometers, thermometers, Stevenson screens, and weather radar/satellite imaging.

Case No.	F.4-165/2026-R
Particulars of post	Deputy Director / Senior Meteorologist (BS-18) Pakistan Meteorological Department (PMD), Ministry of Defence
Minimum Qualification & Experience:	i. Second Class or Grade 'C' Master's / Bachelor's (16 years education) degree in Meteorology / Seismology / Hydro-Meteorology / Hydrology / Geophysics / Geology / Geography / Physical Chemistry / Physics / Mathematics / Environmental Sciences / Climate Sciences/ Atmospheric Sciences / Earth Sciences / Satellite Meteorology / Remote Sensing & Geographical Information System-Geo-Information / Space Sciences / Agriculture Meteorology or equivalent qualification from a University recognized by HEC. ii. Five (05) years post qualification experience in the field of relevant educational subject / qualification in BS-17 a form a Public / Private Sector organization.

Max Marks: 200Qualifying Standard: 40%

(Note: Negative marking of 0.25/ wrong answer)

Part-I: 100 Marks (MCQ)**I. English (40 Marks)**

- Comprehension
- Grammar Usage
- Vocabulary
- Sentence Structuring
- Sentence Correction
- Grouping of Words
- Pairs of Words
- Idiomatic Phrases
- Synonyms/ Antonyms
- Translation

II. General Intelligence/Ability (60 Marks)

- Basic Arithmetic/Quantitative Ability
 - Algebra
 - Ratios
 - Percentages
 - Arithmetic Means
- Logical Reasoning and Analytical Ability
- Current Affairs.
 - Developments at National and International Levels in last 2 years
- Pakistan Affairs
 - Basic Level knowledge
- Basic IT (Hardware and Software)

Part-II (Professional): 100 Marks (MCQ)**I. Earth's Atmosphere:**

Composition of gases, vertical thermal layers (troposphere, stratosphere, mesosphere, thermosphere).

II. Atmospheric Temperature & Heat Transfer

Solar and terrestrial radiation, conduction, convection, standard lapse rates, and temperature inversions.

III. Atmospheric Pressure & Winds

Barometric pressure, isobars, pressure gradient force, Coriolis effect, geostrophic wind, and local/global wind systems (monsoons, land/sea breezes).

IV. Humidity, Condensation & Clouds

Absolute/relative humidity, dew point, adiabatic processes (DALR and SALR), fog formation, and cloud classification (cirrus, cumulus, stratus, cumulonimbus).

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