

**FEDERAL PUBLIC SERVICE COMMISSION  
(Curriculum & Research Wing)**

**Scheme and Syllabi for Screening/ Professional Tests Relating to  
Posts Advertised Vide Consolidated Advertisement No. 02/2013**

<b>For Each Case No. of Paper : 1 Marks : 100 Time Allowed: 100 Minutes</b>
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S. No	Case No. F.4-	Particulars of Post(s)	Test Specification	Topics of Syllabi
1.	20/2013	Deputy Chief Librarian (BS-18), Directorate General of Special Education, Social Welfare, Ministry of Capital Administration and Development.	Objective Type Test (MCQ)  Professional Test=100 Marks	<ul style="list-style-type: none"> <li>• Introduction to Library &amp; Information Science</li> <li>• Information Sources and Services</li> <li>• Theory and Practice of Classification and Cataloguing.</li> <li>• Collection, Maintenance and Issuance of Library Books.</li> <li>• Management and Physical Verification of Libraries &amp; Information Centres</li> <li>• Library Automation: Storage &amp; Retrieval</li> <li>• Public Records, Rare Material &amp; their Conservation</li> <li>• Management of Serials Publications</li> <li>• Rules &amp; Procedures of Write off the Library Losses</li> <li>• Public Procurement Regulatory Authority (PPRA) Rules, 2004.</li> </ul>
2.	21/2013	Deputy Assistant Chemical Examiner (BS-16), Customs Department, Federal Board of Revenue	Objective Type Test (MCQ)  <b>Part-I</b> English =20 marks  <b>Part-II</b> Professional Test=80 marks	<p><b>Part-I</b> Vocabulary, Grammar usage.</p> <p><b>Part-II</b></p> <ul style="list-style-type: none"> <li>• Hydro-generation</li> <li>• Polymerization</li> <li>• Hydrocarbons &amp; their Byproducts</li> <li>• Vitamins: Introduction and Classification</li> <li>• Qualitative and Quantitative Analysis of Chemicals</li> <li>• Hydration and Dehydration</li> <li>• Enzymes: Terminology, Nature, Classification</li> <li>• Organic and Inorganic Compounds</li> <li>• Chemistry of Functional Groups</li> <li>• Introductory Organic Spectroscopy</li> <li>• PH Range of Phenolphthalein</li> <li>• Composition of Natural Gas</li> </ul>

***Note: - In cases of BS-16 to 19 where number of applicants is less than ten (10) per case, the Commission reserves the right to dispense with the written test and call the candidates for interview directly, after determination of their eligibility in terms of advertised conditions.***

S. No	Case No. F.4-	Particulars of Post(s)	Test Specification	Topics of Syllabi
3.	23/2013	Assistant Geophysicist (BS-17), Geological Survey of Pakistan, Ministry of Petroleum and Natural Resources.	Objective Type Test (MCQ)  <b>Part-I</b>  English =20 marks  <b>Part-II</b>  Professional Test=80 marks	<b>Part-I</b> Vocabulary, Grammar usage, Sentence Structure <b>Part-II</b> <ul style="list-style-type: none"> <li>• Basic Geology</li> <li>• Basic Geochemistry</li> <li>• Structural Geology</li> <li>• Gravity Survey</li> <li>• Magnetic Survey</li> <li>• Seismic Survey (Refraction &amp; Reflection)</li> <li>• Electrical Methods</li> <li>• Geophysical Bore hole Logging</li> <li>• Radioactive Survey</li> <li>• Earthquake Seismology</li> </ul>
4.	24/2013	Senior Physiotherapist (BS-18), Directorate General of Special Education, Social Welfare, Ministry of Capital Administration and Development.	Objective Type Test (MCQ)  Professional Test=100 marks	<ul style="list-style-type: none"> <li>• Anatomy</li> <li>• Biochemistry</li> <li>• Community Medicine &amp; Sociology</li> <li>• Electrotherapy &amp; Actinotherapy</li> <li>• Kinesiology</li> <li>• Medical Physics</li> <li>• Physiotherapy Skills &amp; Techniques</li> <li>• Therapeutic Exercises &amp; Techniques</li> <li>• Therapeutic intervention services to disabled children</li> </ul>
5.	26/2013	Assistant Professor (Male) (BS-18) A. Political Science B. Mathematics C. Commerce Islamabad Model Colleges, Capital Administration & Development Division.	Objective Type Test (MCQ) <b>Part-I</b>  Subject Test = 70 marks  <b>Part-II</b>  Professional Test=30 marks	<b>For (A) Political Science</b> <b>Part-I (Masters Level)</b> <ul style="list-style-type: none"> <li>• Ideology of Pakistan,</li> <li>• Pakistan Movement,</li> <li>• Political System of Pakistan (Constitutional Development),</li> <li>• Muslim Political Thoughts and Institutions,</li> <li>• Comparison of Political Systems,</li> <li>• International Relations,</li> <li>• International Law,</li> <li>• Local Government System in Pakistan,</li> <li>• Dynamics of Politics in Pakistan</li> </ul> <b>Part-II</b> <ul style="list-style-type: none"> <li>• Teaching Techniques and Methodology,</li> <li>• Classroom Management and Discipline,</li> <li>• Testing and Evaluation,</li> <li>• Development of Education in Pakistan.</li> </ul>

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				<p><b><u>For (B) Mathematics</u></b></p> <p><b><u>Part-I (Masters Level)</u></b></p> <ul style="list-style-type: none"> <li>• Calculus</li> <li>• Number Theory</li> <li>• Group Theory</li> <li>• Computing Tools for Mathematicians</li> <li>• Vector and Tensor Analysis</li> <li>• Classical Mechanics</li> <li>• Complex/Numerical Analysis</li> <li>• Mathematical Statistics</li> <li>• Differential Equations</li> </ul> <p><b><u>Part-II</u></b></p> <ul style="list-style-type: none"> <li>• Teaching Techniques and Methodology,</li> <li>• Classroom Management and Discipline,</li> <li>• Testing and Evaluation,</li> <li>• Development of Education in Pakistan.</li> </ul> <hr/> <p><b><u>For (C) Commerce</u></b></p> <p><b><u>Part-I (Masters Level)</u></b></p> <ul style="list-style-type: none"> <li>• Auditing</li> <li>• Cost Accounting</li> <li>• Managerial Economics</li> <li>• Financial Management</li> <li>• Operations and Production Management</li> <li>• Research Methods in Business</li> <li>• Computer Application in Business</li> <li>• Banking/Islamic Banking</li> <li>• Mercantile Law</li> </ul> <p><b><u>Part-II</u></b></p> <ul style="list-style-type: none"> <li>• Teaching Techniques and Methodology,</li> <li>• Classroom Management and Discipline,</li> <li>• Testing and Evaluation,</li> <li>• Development of Education in Pakistan.</li> </ul>

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6.	28/2013	Curator (BS-17), GHQ, Ministry of Defence	Objective Type Test (MCQ) <b>Part-I</b> English = 20 marks <b>Part-II</b> Subject Test = 80 marks	<b>Part-I</b> Vocabulary, Grammar usage, Sentence Structure <b>Part-II</b> <ul style="list-style-type: none"> <li>Care and preservation of exhibits of historical and cultural significance.</li> <li>Documentation of artifacts/exhibits, archives, etc.</li> <li>Research Techniques.</li> <li>Planning and development of Museum.</li> <li>Organizing exhibitions</li> <li>Administration of Museums</li> <li>Acquaintance in the field of conservation</li> <li>Knowledge of MS Office and Internet</li> </ul>
7.	29/2013	Trained Graduate Teacher (Female), (BS-16)  <b>A)</b> B.Sc. with Mathematics <b>B)</b> B.Sc. with Physics  Directorate of Federal Government Educational Institutions, (Urdu Medium Schools) (Cantts/ Garrisons), Ministry of Defence	Objective Type Test (MCQ) <b>Part-I</b> English = 20 marks <b>Part-II</b> Subject Test = 40 marks <b>Part-III</b> Professional Test = 40 marks	<b>For (A) B.Sc. With Mathematics</b> <b>Part-I</b> Vocabulary, Grammar usage. <b>Part-II (Bachelor's Level)</b> <ul style="list-style-type: none"> <li>Algebra</li> <li>Mechanics</li> <li>Ordinary Differential Equations</li> <li>Matrices, Determinants and Linear Equations</li> </ul> <b>Part-III</b> <ul style="list-style-type: none"> <li>Education System in Pakistan,</li> <li>Educational Psychology,</li> <li>Class Room Management and Discipline,</li> <li>Instructional Planning and Teaching Strategies,</li> <li>Students Evaluation and Examination System,</li> <li>Educational Guidance and Counselling.</li> </ul> <b>For (B) B.Sc. With Physics</b> <b>Part-I</b> Vocabulary, Grammar usage. <b>Part-II (Bachelor's Level)</b> <ul style="list-style-type: none"> <li>Work and Energy</li> <li>Angular Momentum</li> <li>Gravitation</li> <li>Waves, Sound and Light</li> <li>Thermodynamics</li> <li>Faraday's Law of Electromagnetic Induction</li> </ul>

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				<b>Part-III</b> <ul style="list-style-type: none"> <li>• Education System in Pakistan,</li> <li>• Educational Psychology,</li> <li>• Class Room Management and Discipline,</li> <li>• Instructional Planning and Teaching Strategies,</li> <li>• Students Evaluation and Examination System,</li> <li>• Educational Guidance and Counselling</li> </ul>
8.	30/2013	Drilling Engineer (BS-17), Geological Survey of Pakistan, Ministry of Petroleum and Natural Resources.	Objective Type Test (MCQ)  <b>Part-I</b> English = 20 marks  <b>Part-II</b> Professional Test=80 marks	<b>Part-I</b> Vocabulary, Grammar usage, Sentence Structure.  <b>Part-II</b> <ul style="list-style-type: none"> <li>• Drilling and its scope</li> <li>• Purpose and uses of drilling</li> <li>• Classification of drilling</li> <li>• Type of drilling</li> <li>• Methods used for purification of drilling fluid</li> <li>• Causes of circulation fluid losses and its prevention</li> <li>• Function of equipments and accessories used for drilling</li> <li>• Types of mud used for drilling</li> <li>• Types of drilling Bits and their functions</li> <li>• Drilling circulation fluid: Type, Purpose and Properties.</li> </ul>
9.	31/2013	Associate Professor/ Vice Principal,(BS-19) (Female), <b>A) Arabic</b> <b>B) Physics</b> Islamabad Model Colleges, Capital Administration and Development Division.	Objective Type Test (MCQ)  <b>Part-I</b> Subject Test = 70 marks  <b>Part-II</b> Professional Test=30 marks	<b>For (A) Arabic</b> <b>Part-I (Master's Level)</b> <ul style="list-style-type: none"> <li>• History of Arabic literature</li> <li>• History of Semetic Languages</li> <li>• Arabic Phonetic</li> <li>• Arabic Syntax</li> <li>• Arabic Classical Literature</li> <li>• Arabic Vocabulary,</li> <li>• Arabic Grammar usage,</li> <li>• Arabic Sentence Structure</li> <li>• Research Methodology/Techniques</li> </ul> <b>Part-II</b> <ul style="list-style-type: none"> <li>• Educational Planning and Management</li> <li>• Curriculum Planning &amp; Instructional Technology</li> <li>• Institutional Management &amp; Discipline</li> <li>• Civil Servant Act, 1973 and Rules made thereunder</li> </ul>

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				<p><b>For (B) Physics</b></p> <p><b>Part-I (Masters Level)</b></p> <ul style="list-style-type: none"> <li>• Heat and Thermodynamics,</li> <li>• Waves and Optics,</li> <li>• Electrostatic,</li> <li>• Electricity and Magnetism,</li> <li>• Atomic and Modern Physics,</li> <li>• Nuclear Physics,</li> <li>• Basic Solid State Physics,</li> <li>• Basic Electronics,</li> <li>• Electrodynamics,</li> <li>• Mechanics</li> <li>• Research Methodology/Techniques</li> </ul> <p><b>Part-II</b></p> <ul style="list-style-type: none"> <li>• Educational Planning and Management</li> <li>• Curriculum Planning &amp; Instructional Technology</li> <li>• Institutional Management &amp; Discipline</li> <li>• Civil Servant Act, 1973 and Rules made thereunder</li> </ul>
10.	32/2013	Research Officer/ Planning Officer/ Survey Officer (BS-17), Economists Group, Planning and Development Division.	<p>Objective Type Test (MCQ)</p> <p><b>Part-I</b></p> <p>English = 20 marks</p> <p><b>Part-II</b></p> <p>Professional Test=80 marks</p>	<p><b>Part-I</b></p> <p>Vocabulary, Grammar usage, Sentence Structure.</p> <p><b>Part-II</b></p> <ul style="list-style-type: none"> <li>• Need and Importance of Research</li> <li>• Qualitative and Quantitative Research Method</li> <li>• Empirical and Analytical Analysis Techniques</li> <li>• Collection and Compilation of Data for Economic Research</li> <li>• Investment theories and concepts</li> <li>• Report Writing</li> <li>• History of Pakistan's Economic Development Planning</li> <li>• Economic Development Planning: Typology Tools and Techniques</li> <li>• Pakistan Economic Development Policies and Strategies.</li> <li>• Operational Research</li> </ul>

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11.	33/2013	Assistant Professor (Female) (BS-18), <b>A. Mathematics</b> <b>B. Fine Arts</b> F.G. Colleges, Directorate of Federal Government Educational Institutions (Cantt/ Garrison), Ministry of Defence	Objective Type Test (MCQ) <b>Part-I</b> Subject Test = 70 marks <b>Part-II</b> Professional Test=30 marks	<p><b>For (A) Mathematics</b> <b>Part-I (Masters Level)</b></p> <ul style="list-style-type: none"> <li>• Calculus</li> <li>• Number Theory</li> <li>• Group Theory</li> <li>• Computing Tools for Mathematicians</li> <li>• Vector and Tensor Analysis</li> <li>• Classical Mechanics</li> <li>• Complex/Numerical Analysis</li> <li>• Mathematical Statistics</li> <li>• Differential Equations</li> </ul> <p><b>Part-II</b></p> <ul style="list-style-type: none"> <li>• Teaching Techniques and Methodology,</li> <li>• Classroom Management and Discipline,</li> <li>• Testing and Evaluation,</li> <li>• Development of Education in Pakistan.</li> </ul> <p><b>For (B) Fine Arts</b> <b>Part-I (Masters Level)</b></p> <ul style="list-style-type: none"> <li>• General Concepts of Art,</li> <li>• Techniques of Painting,</li> <li>• Ancient Civilizations,</li> <li>• Pakistani Art and Artists,</li> <li>• Muslim Architectures and Muslim Art,</li> <li>• Medieval Art- Renaissance-Baroque-Rococo,</li> <li>• Print Making,</li> <li>• Graphic Art (Printing, Etching-Woodcut, lithography)</li> </ul> <p><b>Part-II</b></p> <ul style="list-style-type: none"> <li>• Teaching Techniques and Methodology</li> <li>• Classroom Management and Discipline</li> <li>• Testing and Evaluation</li> <li>• Development of Education in Pakistan</li> </ul>

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12.	34/2013	Assistant Director (Geology) (BS-17), Geological Survey of Pakistan, Ministry of Petroleum and Natural Resources.	Objective Type Test (MCQ) <b>Part-I</b> English = 20 marks <b>Part-II</b> Professional Test=80 marks	<b>Part-I</b> Vocabulary, Grammar usage, Sentence Structure. <b>Part-II</b> <ul style="list-style-type: none"> <li>• Geomorphology</li> <li>• Stratigraphy</li> <li>• Structural Geology</li> <li>• Plate Tectonics</li> <li>• Physical Geology</li> <li>• Petrology and Mineralogy</li> <li>• Geochemistry</li> <li>• Geological Mapping</li> <li>• Paleontology (Invertebrate &amp; Vertebrate)</li> <li>• Engineering Geology</li> </ul>
13.	35/2013	Lecturer (Female) (Statistics) (BS-17), F.G. Colleges for Women, Islamabad, Federal Directorate of Education, Capital Administration and Development Division	Objective Type Test (MCQ) <b>Part-I</b> English =20 marks <b>Part-II</b> Subject Test = 50 marks <b>Part-III</b> Professional Test = 30 marks	<b>Part-I</b> Vocabulary, Grammar usage, Sentence Structuring. <b>Part-II (Master's Level)</b> <ul style="list-style-type: none"> <li>• Measures of Central Tendency,</li> <li>• Measures of Dispersion or Variation,</li> <li>• Regression and Correlation,</li> <li>• Index Numbers,</li> <li>• Probability Theory,</li> <li>• Probability Distributions,</li> <li>• Presentation of Data by Frequency Distribution &amp; Graphs,</li> <li>• Time Series Analysis,</li> <li>• Statistical Inference,</li> <li>• Sampling Theory and Techniques,</li> <li>• Analysis of Variance,</li> <li>• Experimental Design.</li> </ul> <b>Part-III</b> <ul style="list-style-type: none"> <li>• Teaching Techniques and Methodology,</li> <li>• Classroom Management and Discipline,</li> <li>• Testing and Evaluation,</li> <li>• Development of Education in Pakistan.</li> </ul>

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14.	36/2013	Staff Officer-III (Stat) (BS-17), GHQ, Ministry of Defence.	Objective Type Test (MCQ) <b>Part-I</b> English =20 marks <b>Part-II</b> Professional Test = 80 marks	<b>Part-I</b> Vocabulary, Grammar Usage, Sentence Structuring. <b>Part-II</b> <ul style="list-style-type: none"> <li>• Introduction of Statistics and its application in different fields</li> <li>• Presentation and classification of data.</li> <li>• Measures of Central Tendency</li> <li>• Measures of Dispersion</li> <li>• Correlation and Regression</li> <li>• Index Numbers</li> <li>• Sampling</li> <li>• Time Series Analysis</li> <li>• Binomial Distribution</li> <li>• Testing of Hypothesis</li> <li>• Research Report Writing</li> </ul>
15.	37/2013	Associate Professor (Female) (Journalism) (BS-19), F.G. Colleges for Women, Federal Directorate of Education, Islamabad, Capital Administration and Development Division.	Objective Type Test (MCQ) <b>Part-I</b> Subject Test = 70 marks <b>Part-II</b> Professional Test=30 marks	<b>Part-I (Masters Level)</b> <ul style="list-style-type: none"> <li>• News Reporting and Sub-editing, Feature, Column and Editorial</li> <li>• Principles and Process of Communication</li> <li>• Public Relations: Scope and Tools of Public Relations,</li> <li>• Propaganda, Advertising and Publicity</li> <li>• Press Laws in Pakistan &amp; Government Media Relationship, Ethics of Journalism and Freedom of Press</li> <li>• Social and Developmental Responsibilities of Pakistani Media</li> <li>• Organizational Structure of National Newspapers and News Agencies</li> <li>• Importance of TV Documentary &amp; Live Programme</li> </ul> <b>Part-II</b> <ul style="list-style-type: none"> <li>• Educational Planning and Management</li> <li>• Curriculum Planning &amp; Instructional Technology</li> <li>• Institutional Management &amp; Discipline</li> <li>• Civil Servant Act, 1973 and Rules made thereunder</li> </ul>

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16.	38/2013	Project Officer (BS-17), Anti Narcotics Force, Ministry of Narcotics Control.	Objective Type Test (MCQ) <b>Part-I</b> English = 20 marks <b>Part-II</b> Professional Test = 80 marks	<b>Part-I</b> Vocabulary, Grammar Usage, Sentence Structure. <b>Part-II</b> <ul style="list-style-type: none"> <li>• Basic IT Knowledge</li> <li>• MS Office</li> <li>• Analysis and Preparation of Feasibility Reports</li> <li>• Drug Addiction and Treatment in Pakistan</li> <li>• Legal parameters of NGOs operation in Pakistan</li> <li>• Planning, Conducting and Analyzing Surveys</li> </ul>

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