

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

**Scheme and Syllabi for Screening/ Professional Tests Relating to
Posts Advertised Vide Consolidated Advertisement No. 01/2013**

<p>For Each Case No. of Paper : 1 Marks : 100 Time Allowed: 100 Minutes</p>
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S. No	Case No. F.4-	Particulars of Post(s)	Test Specification	Topics of Syllabi
1.	01/2013	Assistant Naval Store Officer (BS-16), Pakistan Navy, Ministry of Defence	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test =80 marks	Part-I Vocabulary, Grammar Usage Part-II <ul style="list-style-type: none"> • Basic Arithmetic • General Science • Basic knowledge of I.T • Procedures of Receipt and Issue of Stores • Stores handling procedures with relation to following topics:- <ul style="list-style-type: none"> a. Stock Taking b. Care and Preservation of Military Stores c. Ware House Management
2.	02/2013	Head Nurse (BS-17), Pakistan Institute of Medical Sciences, Islamabad, Capital Administration and Development Division	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 Marks	Part-I Vocabulary, Grammar Usage, Sentence Structure Part-II <ul style="list-style-type: none"> • Core Courses of BSc. Nursing Programme • Ward Administration • Hospitality of the Patients • Care vs. Cure for Health Management • Developing training & instructional materials for Nursing Courses.

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.	03/2013	Veterinary Officer (Civilian) (BS-17), Remount Veterinary and Farms Corps, Ministry of Defence	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar usage, Sentence Structure Part-II <ul style="list-style-type: none"> • Preventive Medicine, • Veterinary Pathology, • Veterinary Parasitology, • Veterinary Microbiology, • Animal Nutrition, • Animal Breeding & Genetics, • Livestock Management, • Poultry Husbandry, • Animal Reproduction, • Infectious Diseases of Bovines & Poultry.
4.	04/2013	Entomologist (BS-17), Department of Plant Protection, Ministry of National Food Security and Research	Objective Type Test (MCQ) Part-I English =20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar usage, Sentence Structure Part-II <ul style="list-style-type: none"> • Pests and Diseases of economic importance. • Concepts of integrated Pest and Disease Management. • Morphological and Physiological basis of Plant Protection. • Plant Pests and disease diagnosis. • Seed health testing • Pesticides chemistry clarification and regulations. • Plant quarantine and SPS regulations. • Biotechnology. • Locust Biology and management. • Project planning and preparation.

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S. No	Case No. F.4-	Particulars of Post(s)	Test Specification	Topics of Syllabi
5.	05/2013	Assistant Executive Engineer (BS-17), Civil Engineering Department of Pakistan Railways (Railway Board), Ministry of Railways.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structure. Part-II <ul style="list-style-type: none"> • Soil Mechanics & Foundation Engineering • Hydraulic & Hydrology • Surveying & Levelling • Project Planning & Construction Management • Building Material & Building Construction • Structural Engineering • Engineering Materials • Concrete Technology & R.C.C Structure Design • PC-1 for Building and Infrastructure Projects • Basic IT/Computer Knowledge • Costing and Estimation • Water Resources and Water Supply Design • Steel Structure, Analysis and Design • Environmental Engineering • Public Procurement Regulatory Authority (PPRA) Rules, 2004 • Engineering Mechanics • Strength of Materials • Transportation Engineering
6.	06/2013	Senior Subject Specialist (Female) (Economics), (BS-18), Directorate of Federal Government Educational Institutions, (Cantts/ Garrisons), F.G. Girls Higher Secondary School, COD Kala Jhelum, Ministry of Defence.	Objective Type Test (MCQ) Part-I Subject Test = 70 marks Part-II Professional Test=30 marks	Part-I (Masters Level) <ul style="list-style-type: none"> • Micro Economics, • Macro Economics, • Managerial Economics, • International Economics, • Developmental Economics, • Statistics & Econometrics, • WTO and Developing Economies, • Monetary Theory & Public Finance, Part-II <ul style="list-style-type: none"> • Teaching Techniques and Strategies, • Examination & Evaluation of Students. • Classroom/Institutional Management, • Development of Education in Pakistan.

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
7.	07/2013	Assistant Controller of Stores and Purchase (BS-17), Store & Purchase Department, Ministry of Railways	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar usage, Sentence Structure. Part-II <ul style="list-style-type: none"> • Basic Arithmetic • General Science • Basic knowledge of I.T • Procedures of Receipt and Issue of Stores • Stores procedures with relation to following topics:- <ul style="list-style-type: none"> a. Stock Taking b. Care and preservation of Railway Equipments and Stores c. Ware House Management • Public Procurement Regulatory Authority (PPRA) Rules, 2004
8.	08/2013	Assistant Electrical Engineer (BS-17), Electrical Engineering Department, Ministry of Railways	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structure. Part-II <ul style="list-style-type: none"> • Power Generation, • Power Transmission, • Power Distribution, • AC. DC. Machines, • Power and Digital Electronics, • Electronic Devices and Structure, • 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 Equipments, • Handling of Programmable ICS, • FPGAs & PLCs, • RF Devices.

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
9.	09/2013	Assistant Mechanical Engineer (BS-17), Ministry of Railways	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar usage, Sentence Structure. Part-II <ul style="list-style-type: none"> • Industrial Materials • Machine Design and Drawing • Mechanics of Machines • Production Management & Quality Control • Workshop Technology • Hydraulic Machines • Mechanics and Strength of Materials • Manufacturing processes like Casting, Forging, Machining, Rolling, Extrusion, Welding, Drilling
10.	10/2013	Director (BS-19), Geological Survey of Pakistan, Ministry of Petroleum and Natural Resources	Objective Type Test (MCQ) Professional Test=100 marks	<ul style="list-style-type: none"> • Stratigraphy of Pakistan. • Major Tectonic Elements of Pakistan. • Economic Geology of Major Mineral Deposits of Pakistan. • Geochemistry of Major Mineral Deposits of Pakistan. • Major Oil Producing Stratigraphic Zones of Pakistan. • Geological Mapping Techniques in Pakistan. • Utilization of Computers in solving Structural Problems in Geology of Pakistan. • Metallogenic Zones of Pakistan. • Development of Early Warning Systems of Landslides in Pakistan. • Hydrological Basins of Pakistan.
11.	11/2013	Deputy Director (Admn.) (BS-18), Geological Survey of Pakistan, Ministry of Petroleum and Natural Resources	Objective Type Test (MCQ) Professional Test=100 marks	<ul style="list-style-type: none"> • Personnel Management • Civil Servants Act, 1973 and Rules made thereunder • General Provident Fund Rules. • Benevolent Fund and Group Insurance Rules. • Government Servants (Efficiency And Discipline) Rules, 1973 • Appeal Rules, 1977. • Rules of Business, 1973 • New System of Financial Control and Budgeting, • Public Procurement Regulatory Authority Rules, 2004 • Civil Servants (Appointment, Promotion & Transfer) Rules, 1973 • Basic knowledge of Computer/IT.

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S. No	Case No. F.4-	Particulars of Post(s)	Test Specification	Topics of Syllabi
12.	12/2013	Assistant Executive Engineer (Civil) (BS-17), Public Works Department, Gilgit Baltistan, Kashmir Affairs & Gilgit Baltistan Division.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test=80 marks	Part-I Vocabulary, Grammar usage, Sentence Structure. Part-II <ul style="list-style-type: none"> • Building material & Building construction, • Surveying & Leveling, • Hydraulic & Hydrology, • Soil Mechanics & foundation, • Concrete Technology & R.C.C Structure design, • Irrigation, • Steel Structure & Highway, • Construction Management, • Structural Design Applications, • Dam designing and construction, • Sewerage and sewage treatment, • Engineering Materials, • Reinforced Concrete, • Ground improvement, • Earth and Rock structure
13.	13/2013	Executive Engineer (Electrical) (BS-18), MES, Ministry of Defence	Objective Type Test (MCQ) Professional Test=100 marks	<ul style="list-style-type: none"> • 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

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
14.	14/2013	Assistant Professor (BS-18) (Female) (Mathematics), F.G. Colleges for Women, Federal Directorate of Education, Capital Administration Development Division.	Objective Type Test (MCQ) Part-I Subject Test = 70 marks Part-II Professional Test=30 marks	Part-I (Masters Level) <ul style="list-style-type: none"> • Calculus/Differentiation, Integration, Limits of continuity • Group Theory, • Ring Theory, • Communication Skills for Mathematicians, • Computing Tools for Mathematicians, • Classical Mechanics, • Mathematical Statistics, • Real Analysis, • Mathematical Spaces (Sets, Vector Spaces, Metric Spaces, Topological Spaces, Tensors) • Differential Equations. Part-II <ul style="list-style-type: none"> • Teaching Techniques and Methodology, • Classroom Management and Discipline, • Testing and Evaluation, • Development of Education in Pakistan.
15.	15/2013	Inspector (BS-16), Anti Narcotics Force, Ministry of Narcotics Control.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test = 80 marks	Part-I Vocabulary, Grammar Usage. Part-II <ul style="list-style-type: none"> • Investigation Chapter of Criminal Procedure Code, • Basic knowledge of "Qanun-e-Shahadat Order" • Basic knowledge of Pakistan Penal Code, • Basic knowledge of Narcotics Substances Act,1997 • Basic Arithmetic • Current Affairs, • Pakistan Affairs & Islamic Studies.

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S. No	Case No. F.4-	Particulars of Post(s)	Test Specification	Topics of Syllabi
16.	16/2013	Assistant Professor (BS-18) (Female) (Commerce), Islamabad Model Colleges, Capital Administration Development Division.	Objective Type Test (MCQ) Part-I Subject Test = 70 marks Part-II Professional Test=30 marks	Part-I (Masters Level) • Auditing • Cost Accounting • Managerial Economics • Financial Management • Operations and Production Management • Research Methods in Business • Computer Application in Business • Banking/Islamic Banking • Mercantile Law Part-II • Teaching Techniques and Methodology, • Classroom Management and Discipline, • Testing and Evaluation, • Development of Education in Pakistan.
17.	17/2013	Computer Instructor (Female), (BS-17), F.G. High Schools, Directorate of Federal Government Educational Institutions, (Cantts/ Garrisons), Ministry of Defence.	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 Structure, Part-II (Masters Level) • History of Computers • Generations of Computer • Computer Hardware/Software, • Number System • C/C++ Language, • Visual Basic, • Windows XP, 2000, Part-III • Teaching Techniques and Methodology, • Classroom Management and Discipline, • Testing and Evaluation, • Development of Education in Pakistan.

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.

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18.	19/2013	Assistant Director (BS-17), Federal Government Organization.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II General Intelligence Test=80 marks	Part-I Vocabulary, Grammar Usage, Sentence Structure Part-II <ul style="list-style-type: none"> • Basic Arithmetic. • Current Affairs. • Pakistan Affairs & Islamic Studies • Everyday/General Science Note : (Equal weightage for each topic at Part-II)
19.	22/2013	Chemist (BS-17), Geological Survey of Pakistan, Ministry of Petroleum and Natural Resources.	Objective Type Test (MCQ) Part-I English = 20 marks Part-II Professional Test = 80 marks	Part-I Vocabulary, Structuring of Sentence, Grammar usage. Part-II <ul style="list-style-type: none"> • Basic concept of Analytical Chemistry. • Chemical Analysis of Water • Theory, Technique and Calculation of Volumetric and Gravimetric Analysis. • Coal Analysis particularly Analysis of Proximate and Ultimate • Theory, Principals, uses and working of Atomic Absorption Spectrophotometer and Flame Photometer • Oxidation-Reduction Titration • Decomposition Techniques of Rock and Minerals • Method of maintaining accuracy/precision in Chemical Analysis

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.