



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Neurosurgery in the Health Department

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Syllabus for the post of Associate Professor (B-19) in Neurosurgery in the Health Department

Advt. No. : 02/2021

Qualification:

- i. MBBS or equivalent qualification recognized/registered by the PMC.
- ii. FCPS/MS/MD in the respective specialty OR other equivalent qualification in the relevant specialty recognized/registered by the PMC.
- iii. Three year teaching experience as an Associate Professor in the respective specialty is essential. Provided that the total experience as Associate Professor and Assistant Professor shall not be less than eight year, OR nine year teaching experience as Assistant Professor.
- iv. At least two research papers in the Standard Medical Journal.

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- i. MBBS or equivalent qualification recognized/registered by the PMC.
- ii. FCPS/MS/MD in the respective specialty OR other equivalent qualification in the relevant specialty recognized/registered by the PMC.
- iii. Five year teaching experience as an Assistant Professor in the respective specialty.
- iv. At least three research papers in the Standard Medical Journal.

Subjects:

1. Neuroanatomy
2. Neurophysiology
3. Neuropathology
4. Neuroradiology
5. Neurosurgery Related Clinical Competence:
 - a) Clinical Neurology
 - b) Paediatric Neurosurgery
 - c) Neuro-oncology
 - d) Functional Neurosurgery
 - e) Neurovascular Surgery
 - f) Skull-base surgery
 - g) Spinal surgery
 - h) Traumatology

**NOTE: BOOKS ALREADY RECOMMENDED BY PMC WITH EMPHASIS ON
ABOVE MENTIONED SUBJECTS.**



BALUCHISTAN PUBLIC SERVICE COMMISSION

Samungli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Radiology in the Health Department

&

Syllabus for the post of Associate Professor (B-19) in Radiology in the Health Department

Advt. No. : 02/2021

Qualification:

- i. MBBS or equivalent qualification recognized/registered by the PMC.
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- iv. At least two research papers in the Standard Medical Journal.

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- iv. At least three research papers in the Standard Medical Journal.

Subjects/Contents:

1. **Describe Aetiology, Pathophysiology, and principles of diagnosis and management of common problems including emergencies, in adults and children.**
2. **Body Imaging with the proper clinical and radiologic indications including scientific principles in:**
 - ♣ Basic radiation biology and radiation protection
 - ♣ Basic radio pharmacy and radiochemistry
 - ♣ Principles of tracer technology
 - ♣ Diagnostic imaging: mode of pharmaceutical uptake; normal and abnormal appearances of images, normal variants and common artifacts in bone, heart, lung, kidney, brain, thyroid, tumor and infection images.
 - ♣ Therapeutic applications: basic principles of radionuclide therapy; treatment of hyperthyroidism, thyroid cancer and metastatic bone pain.
 - ♣ Principles of radiation protection: ALARA (as low as reasonably achievable), ALARP (as low as reasonably practicable).
 - ♣ Diagnosis and treatment of thyroid diseases.
 - ♣ Tracer kinetics
 - ♣ computing and image processing
 - ♣ Radiobiology including the biological effects of high and low levels of radiation
 - ♣ linear hypothesis and the threshold hypothesis of the biological response to low level radiation
 - ♣ the effective dose equivalent and the calculation of radiation dose from radiopharmaceuticals.
 - ♣ Radio pharmacy
 - ♣ Properties of commonly used diagnostic and therapeutic radiopharmaceuticals
 - ♣ Production of radionuclides by reactors, cyclotrons and radionuclide generators
 - ♣ Quality assurance and quality control of radiopharmaceuticals.
 - ♣ Principles of radiology including dual energy X ray absorption (DEXA), ultrasound, CT and MRI imaging
 - ♣ Learning of cross-sectional anatomy
 - ♣ Correlative imaging of NM images and those from other imaging techniques
 - ♣ Special diagnostic investigations in cardiology, lung disease, gastroenterology, hepatobiliary diseases, nephro-urology, neurology and psychiatry, endocrinology, hematology, oncology and infection
 - ♣ Therapeutic applications
 - ♣ Treatment of bone metastases, neuroendocrine tumours and other malignancies as well as polycythemia.
3. **Use of radio-labeled monoclonal antibodies and peptides for tumor therapy**
4. **State the physiologic properties, proper concentrations and proper indications for the use of the following contrast material:**
 - ♣ Barium
 - ♣ Water soluble contrast media (oral Hypaque or Gastrografin)
 - ♣ Ionic intravenous contrast media
 - ♣ Non-ionic intravenous contrast media

5. **Discuss the following information about Glucagon:**
 - ♣ Proper indications and dosages used in GI radiology
 - ♣ Physiologic effects
 - ♣ Side effects
 - ♣ Contraindications
6. **List the high risk factors for allergic reaction to intravenous contrast media and their treatment**
7. **Basic knowledge of the equipment to be used during fluoroscopy, including proper kilo voltage (KV) techniques for the various procedures, radiation safety features of the machines, and proper radiation safety techniques.**
8. **Ultrasound**
9. **Chest Radiology**
10. **Musculoskeletal Radiology**
11. **Gastrointestinal Radiology**
12. **Genitourinary Radiology**
13. **Neuro and Head & neck-Radiology**
14. **Paediatric Radiology**
15. **Breast Imaging**
16. **Vascular and Interventional Radiology**
17. **Emergency Radiology**
18. **Radiological Skills and Procedures:**
 - Plain film
 - ♣ Barium Enema
 - ♣ Barium Meal
 - ♣ Small Bowel Barium Enema
 - ♣ Sialogram
 - ♣ T-Tube cholangiogram
 - ♣ Knee Arthrogram
 - ♣ Sinogram/Fistulogram
 - ♣ Leg Venogram
 - ♣ Angiographic Examination
 - ♣ Hysterosalpingogram
 - ♣ Lymphangiogram
 - ♣ Abdominal Ultrasound
 - ♣ Obstetrics and Gynecology
 - ♣ Neonatal Brain
 - ♣ Angiography
 - ♣ Myelogram
 - ♣ CT Brain & Spine Reporting
 - ♣ CT Neck and Base of Skull Reporting
 - ♣ CT Abdomen & Pelvis Reporting
 - ♣ CT Chest Reporting
 - ♣ MRI Reporting
 - ♣ Excretion Urography
 - ♣ Retrograde Pyelography
 - ♣ Micturating Cystourethrogram
 - ♣ Small parts ultrasound
 - ♣ Portable Ultrasonography
 - ♣ Mammography
 - ♣ Radionuclide scanning

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BALOCHISTAN PUBLIC SERVICE COMMISSION

Samungli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Cardiology in the Health Department

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Syllabus for the post of Associate Professor (B-19) in Cardiology in the Health Department

Advt. No. : 02/2021

Qualification:

- i. MBBS or equivalent qualification recognized/registered by the PMC.
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- iv. At least two research papers in the Standard Medical Journal.

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- iii. Five year teaching experience as an Assistant Professor in the respective specialty.
- iv. At least three research papers in the Standard Medical Journal.

Subjects:

1. **Clinical Cardiology**
2. **Cardiac Catheterization**
3. **Noninvasive Diagnostic Cardiology**
4. **Echocardiography**
5. **Nuclear Cardiology and Stress Testing**
6. **ECG and Holter Monitoring**
7. **Electrophysiology and pacemaker follow-up**
8. **Heart Failure and Transplantation**
9. **Interventional Cardiology**
10. **Cardiovascular Research**
11. **Preventive Cardiology**

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BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Orthopaedic Surgery in the Health Department

&

Syllabus for the post of Associate Professor (B-19) in Orthopaedic Surgery in the Health Department

Advt. No. : 02/2021

Qualification:

- i. MBBS or equivalent qualification recognized/registered by the PMC.
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 - iv. At least two research papers in the Standard Medical Journal.
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 - iii. Five year teaching experience as an Assistant Professor in the respective specialty.
 - iv. At least three research papers in the Standard Medical Journal.

Subjects:

1. **Trauma**
2. **Spinal Disorders**
3. **Infections of Bones and Joints**
4. **Pediatric Orthopaedics**
5. **Inflammatory, Degenerative, and Traumatic Disorders of Musculoskeletal Soft Tissue**
6. **Cognitive knowledge**
7. **Clinical decision making ability & management expertise:**
 - a) **Pediatric orthopaedics**
 - b) **Orthopaedic oncology**
 - c) **Management of Trauma**
 - d) **Sports Medicine**
 - e) **Physical Medicine and Rehabilitation**
 - f) **Orthopedic Neurology**
 - g) **Spine Surgery**
 - h) **Basic sciences in Orthopaedics**
 - i) **Radiology**
 - j) **Psychologic and social aspect**
8. **Teaching**
9. **Preventive Aspect**
10. **Procedural Skills:**
 - a) **Fracture management**
 - b) **Shoulder Procedures**
 - c) **Upper limb Procedures**
 - d) **Hip Procedures**
 - e) **Lower Limb Procedures**
 - f) **Knee Procedures**
 - g) **Orthopedic Instruments**
 - h) **Ankle/Foot Procedures**

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BALUCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in ENT in the Health Department **&** **Syllabus for the post of Associate Professor (B-19) in ENT in the Health Department**

Advt. No. : 02/2021

Qualification:

- i. MBBS or equivalent qualification recognized/registered by the PMC.
 - ii. FCPS/MS/MD in the respective specialty OR other equivalent qualification in the relevant specialty recognized/registered by the PMC.
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 - ii. FCPS/MS/MD in the respective specialty OR other equivalent qualification in the relevant specialty recognized/registered by the PMC.
 - iii. Five year teaching experience as an Assistant Professor in the respective specialty.
 - iv. At least three research papers in the Standard Medical Journal.

Subjects:

1. **Cognitive knowledge**
2. **Clinical Decision Making Ability & Management Expertise**
3. **Rhinology**
4. **Laryngology**
5. **Oral cavity/salivary glands**
6. **Head/Neck conditions/diseases**
7. **Broncho-esophageal region**
8. **Plastic reconstruction following major head neck surgery & trauma**
9. **Advanced Surgical methods**
10. **General principles of newer therapy/Surgery**
11. **Traumatology & Facio-maxillary Injury**
12. **Radiology**
13. **Audiology & Rehabilitation**
14. **Psychologic and social aspect**
15. **Preventive Otolaryngology**

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BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Pediatric Medicine in the Health Department

&

Syllabus for the post of Associate Professor (B-19) in Pediatric Medicine in the Health Department

Advt. No. : 02/2021

Qualification:

- i. MBBS or equivalent qualification recognized/registered by the PMC.
 - ii. FCPS/MS/MD in the respective specialty OR other equivalent qualification in the relevant specialty recognized/registered by the PMC.
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 - iv. At least two research papers in the Standard Medical Journal.
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 - ii. FCPS/MS/MD in the respective specialty OR other equivalent qualification in the relevant specialty recognized/registered by the PMC.
 - iii. Five year teaching experience as an Assistant Professor in the respective specialty.
 - iv. At least three research papers in the Standard Medical Journal.

Subjects:

1. **Developmental Paediatrics**
2. **Neonatology**
3. **Paediatric Cardiology**
4. **Paediatric Pulmonology**
5. **Paediatric Gastroenterology & Hepatology**
6. **Paediatric Nephrology**
7. **Paediatric Neurology**
8. **Paediatric Hematology and Oncology**
9. **Paediatric Endocrinology**
10. **Paediatric Immunology and Rheumatology**
11. **Paediatric Otolaryngology**
12. **Paediatric Dermatology**
13. **Paediatric Ophthalmology**
14. **Child and Adolescent Psychiatry**

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BALUCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Pediatric surgery in the Health Department

&

Syllabus for the post of Associate Professor (B-19) in Pediatric surgery in the Health Department

&

Syllabus for the post of Assistant Professor (B-18) in Pediatric surgery in the Health Department

Advt. No. : 02/2021

Qualification:

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 - ii. FCPS/MS/MD in the respective specialty OR other equivalent qualification in the relevant specialty recognized/registered by the PMC.
 - iii. Five year teaching experience as an Assistant Professor in the respective specialty.
 - iv. At least three research papers in the Standard Medical Journal.
- &**
- i. MBBS **OR** equivalent Medical qualification recognized/registered by the Pakistan Medical and Dental Council.
 - ii. FCPS/MS/MD in the respective specialty **OR** other equivalent qualifications in the relevant specialty recognized /registered by the Pakistan Medical Dental Council.

Subjects:

1. **Basic Sciences relevant to child development and disease (including relevant genetics and embryology).**
2. **The symptom patterns, differential diagnosis, investigation and management of common paediatric surgical conditions related to; Neonatal Surgery • Emergency Surgery • Central and peripheral nervous systems • Head and neck surgery • Thoracic surgery • Gastrointestinal surgery • Genitourinary surgery • Endoscopic Surgery • Traumatology • Organ transplantation • Paediatric Tumour Surgery etc.**
3. **Differences between adult and child in the management of surgical conditions**
4. **Common Paediatric Surgical conditions**
5. **Construct a differential diagnosis, interpret investigations and construct a management plan for common conditions**
6. **Indications, actions and monitoring of drugs used in the Paediatric Surgical Diseases**
7. **History taking relevant to specific age or developmental stage**
8. **Basic life support skills in Paediatric practice**
9. **Screening programs and prenatal diagnosis**
10. **Management skills in running a Paediatric Surgery Unit**

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BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Anaesthesiology in the Health Department

&

Syllabus for the post of Associate Professor (B-19) in Anaesthesiology in the Health Department

Advt. No. : 02/2021

Qualification:

- i. MBBS or equivalent qualification recognized/registered by the PMC.
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 - iv. At least three research papers in the Standard Medical Journal.

Subjects:

1. **Introduction to Anesthesia**
2. **Basics of Surgery**
3. **Basics of Medicine**
4. **Anaesthesiafor Neurosurgery, Neuroradiology and Neurocritical Care**
5. **Cardiothoracic, Vascular & Thoracic Anaesthesia**
6. **Intensive care medicine**
7. **General Surgery & Trauma and Stabilisation**
8. **Obstetrics**
9. **Paediatric**
10. **Pain medicine**
11. **Plastics/burns**

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BALUCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Medicine in the Health Department

&

Syllabus for the post of Associate Professor (B-19) in Medicine in the Health Department

Advt. No. : 02/2021

Qualification:

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 - iv. At least three research papers in the Standard Medical Journal.

Subjects:

1. **CARDIOLOGY**
2. **PULMONARY MEDICINE**
3. **ENDOCRINOLOGY**
4. **RHEUMATOLOGY**
5. **GASTROENTEROLOGY & HEPATOLOGY**
6. **NEPHROLOGY**
7. **HAEMATOLOGICAL DISORDERS**
8. **PSYCHIATRY**
9. **INPATIENT ONCOLOGY & PALLIATIVE CARE SERVICES**
10. **NEUROLOGY**
11. **DERMATOLOGY**
12. **CRITICAL CARE MEDICINE**
13. **GERIATRIC MEDICINE**
14. **REPRODUCTIVE HEALTH**
15. **EVIDENCE-BASED MEDICINE AND CLINICAL EPIDEMIOLOGY**
16. **HEALTH SCREENING AND PREVENTION**
17. **INFECTIOUS DISEASES**

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BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Urology in the Health Department

&

Syllabus for the post of Associate Professor (B-19) in Urology in the Health Department

Advt. No. : 02/2021

Qualification:

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 - iii. Five year teaching experience as an Assistant Professor in the respective specialty.
 - iv. At least three research papers in the Standard Medical Journal.

Subjects:

1. **Cognitive knowledge**
2. **Clinical Decision Making & Management Expertise**
3. **Cognitive Skills**
4. **Principles of Preoperative Assessment of the Surgical Patient**
5. **Emergency Urological Care**
6. **Renal Transplantation**
7. **Congenital and Developmental Abnormalities**
8. **Obstructive Disease of the Upper Urinary Tract**
9. **Obstructive Disease of the Lower Urinary Tract**
10. **Trauma**
11. **Urological Oncology**
12. **Voiding Disorders including Relevant Neuro-urology**
13. **Urinary and Genital Infections and Sexually Transmitted Disease**
14. **Systemic Diseases and Other Processes Affecting the Urinary Tract**
15. **Renovascular Hypertension**
16. **Andrology**
17. **Adrenal Diseases**
18. **Male Sexual Function and Dysfunction**
19. **Miscellaneous**

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BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Gynecology in the Health Department

&

Syllabus for the post of Associate Professor (B-19) in Gynecology in the Health Department

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Subjects:

1. **Anatomy & Embryology**
2. **Physiology**
3. **Antenatal care**
4. **Normal labour**
5. **Normal puerperium**
6. **New Born**
7. **High risk pregnancy**
8. **Gynaecological conditions in pregnancy**
9. **Complications in pregnancy**
10. **Malposition, Malpresentation and Cord prolapse**
11. **Abnormalities of Puerperium**
12. **Special cases**
13. **Pharmacotherapeutics**
14. **Gynaecological history taking and examination**
15. **Menstrual disorders**
16. **Common genital infection**
17. **Endometriosis**
18. **Tumours of the genital tract**
19. **Uterine displacements**
20. **Gynaecological emergencies**
21. **Special diagnostic tests**
22. **Hormone Therapy**

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BALUCHISTAN PUBLIC SERVICE COMMISSION

Samungli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Dermatology in the Health Department

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Syllabus for the post of Associate Professor (B-19) in Dermatology in the Health Department

Advt. No. : 02/2021

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Subjects:

1. **Common skin diseases, sexually transmitted diseases and leprosy.**
2. **Epidermis, Epidermal-dermal junction, Dermal appendages, Dermis, Subcutis**
3. **Macule, Papule, Vesicle, Bullae, Plaque, Nodule, Tumor, Scale, Crust, Erosion, Fissure, Ulcer**
4. **Pathophysiology of acne including its natural history and differential diagnosis.**
5. **Dermatologic Consultation & Treatment Plan:**
Comedonal acne, Pustular acne, Pustulocystic acne, Acne rosacea, Acne vulgaris
6. **Seborrheic Dermatitis, Pruritus**
7. **Eczematous Dermatoses & Reactive Dermatoses**
8. **Vascular Diseases**
9. **Chronic Vesiculobullous**
10. **Psoriasis, Parapsoriasis, Lichen planus, Pityriasis rosea**
11. **Pyodermas, Fungal Infections, Viral Infections, Venereal Diseases, Parasitic Diseases, Nevoid Anomalies, Alopecia**
12. **Dermatologic Problems Of The Newborn**
13. **Warts And Calluses, Nodules, Premalignant And Malignant Tumors**
14. **Procedural Skills:**
♣ Photochemotherapy and photo therapy ♣ Electric cautery, cryotherapy, electrolysis, tattooing, intra-lesional injections, etc. ♣ Cryosurgery ♣ Skin punch grafting ♣ Micrographic surgery ♣ Wound dressings ♣ Hair colouring-artificial or permanent dyes ♣ Nail surgery ♣ Punch grafting ♣ Split skin grafting ♣ Dermabrasion and suction blister grafting ♣ Tattooing ♣ Scar revision ♣ Chemical peeling ♣ Chemical face peels with glycolic and trichloroacetic acid ♣ Cryosurgery ♣ Comedone/Milia extraction ♣ Excision of growth/papilloma/cysts etc ♣ Electrosurgery ♣ Use of CO2 laser ♣ Sclerotherapy for varicose and telangiectatic veins
15. **♣ Cosmeceuticals ♣ Tumescant liposuction ♣ Substances for soft tissue augmentation ♣ Hair transplantation and alopecia reduction ♣ Botox treatments, facial rejuvenation ♣ Skin resurfacing : chemical peels ♣ Skin resurfacing : dermabrasion ♣ Skin resurfacing : Laser**

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BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) in Ophthalmology in the Health Department

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Syllabus for the post of Associate Professor (B-19) in Ophthalmology in the Health Department

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- iv. At least three research papers in the Standard Medical Journal.

Subjects:

1. **Basic Sciences & Optics**
2. **Optics & Refraction**
3. **Diseases of the Eye**
4. **Posterior Segment Diseases**
5. **Diseases of the Orbit**
6. **Oculoplastics**
7. **Ocular Anaesthesia & Surgeries**
8. **Ocular Diagnostic & Operative Instrument**
9. **Ocular Manifestations of Systemic Diseases**
10. **Neuro-ophthalmology**
11. **Ocular Therapeutics & Toxicity**
12. **Ocular Emergency & Trauma**
13. **Pediatric Ophthalmology**
14. **Community Ophthalmology**
15. **Surgical management of common eye disorders**
16. **Recent advances in surgical management of eye disorders**

NOTE: BOOKS ALREADY RECOMMENDED BY PMC WITH EMPHASIS ON ABOVE MENTIONED SUBJECTS.



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Professor (B-20) Pathology in the Health Department

&

Syllabus for the post of Associate Professor (B-19) in Pathology in the Health Department

Advt. No. : 02/2021

Qualification:

- i. MBBS or equivalent qualification recognized/registered by the PMC.
 - ii. FCPS/MS/MD in the respective specialty OR other equivalent qualification in the relevant specialty recognized/registered by the PMC.
 - iii. Three year teaching experience as an Associate Professor in the respective specialty is essential. Provided that the total experience as Associate Professor and Assistant Professor shall not be less than eight year, OR nine year teaching experience as Assistant Professor.
 - iv. At least two research papers in the Standard Medical Journal.
- &**
- i. MBBS or equivalent Medical qualification recognized/registered by the PMC.
 - ii. D.Sc., Ph.D., FCPS/MS/MD/M.Phil. (Pak) in the respective subjects, which are recognized/registered by PMC. OR Postgraduate minor diploma in respective subject which are recognized/registered by the Pakistan Medical Council.
 - iii. Five year teaching experience as an Assistant Professor in the relevant specialty with at least three research papers to be published in the Standard Medical Journal. OR Seven year teaching experience in the relevant specialty for the Minor Diploma holder with at least five research paper to be published in the Standard Medical Journal.
 - iv. For appointment/Promotion as Associate Professors, the holder of the minor diplomas should be considered only when persons with higher postgraduate qualifications like D.Sc. Ph. D, and M.Phil. etc. with required experience are not available.

Subjects:

- 1. General Pathology**
- 2. Systemic Pathology**
- 3. Cytopathology**
- 4. Haematology**
- 5. Immunopathology**
- 6. Histopathology**
- 7. Clinical Pathology**

NOTE: BOOKS ALREADY RECOMMENDED BY PMC WITH EMPHASIS ON ABOVE MENTIONED SUBJECTS.



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Associate Professor (B-19) in Surgery in the Health Department

Advt. No. : 02/2021

Qualification:

- i. MBBS or equivalent qualification recognized/registered by the PMC.
- ii. FCPS/MS/MD in the respective specialty OR other equivalent qualification in the relevant specialty recognized/registered by the PMC.
- iii. Five year teaching experience as an Assistant Professor in the respective specialty.
- iv. At least three research papers in the Standard Medical Journal.
- v. No diploma holders are eligible for appointment/Promotion as Professor.

Subjects:

1. **Fundamental Concepts in General Surgery**
2. **Incision of skin and subcutaneous tissue**
3. **Closure of skin and subcutaneous tissue**
4. **Knot tying**
5. **Tissue retraction**
6. **Use of drains**
7. **Incision of skin and subcutaneous tissue**
8. **Closure of skin and subcutaneous tissue**
9. **Haemostasis**
10. **Pre-operative assessment and management**
11. **Intraoperative care**
12. **Post-operative care**
13. **Blood products**
14. **Antibiotics**
15. **Safely assess the multiply injured patient**

**NOTE: BOOKS ALREADY RECOMMENDED BY PMC WITH EMPHASIS ON
ABOVE MENTIONED SUBJECTS.**



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samungli Road, Quetta Cantt.

Syllabus for the post of Archaeologist Chemist (B-16) in the Culture, Tourism & Archives Department

Advt. No. : 04/2021

Qualification: Master's Degree at least in Second Division in Chemistry as one of the subject from a recognized University.

Subjective Paper in the following Subjects:

- 1. Physical Chemistry**
- 2. Inorganic Chemistry**
- 3. Organic Chemistry**
- 4. Analytical Chemistry**
- 5. Bio-Chemistry**

Recommended Books:

1. Cotton, F. A. and Wilkinson, G., *Advanced Inorganic Chemistry*, 6th ed., John-Wiley & Sons, New York, (2007).
2. Chaudhary S. U., *Ilmi Textbook of Inorganic Chemistry*, IlmiKitabKhana, Lahore, (2013).
3. John, E. M. *Organic Chemistry*, 8 th ed., Brooks/Cole Publishing Co, USA, (2012).
4. Younus, M., *A Textbook of Organic Chemistry*, IlmiKitabKhana, Urdu Bazar, Lahore, Pakistan, (2006).
5. Atkins, P. and Paula, J.D., *Atkin's Physical Chemistry*, 9th ed., Oxford University Press, (2010).
6. Skoog, D. A., West, P. M., Holler, F. J., Crouch, S. R., *Fundamentals of Analytical Chemistry*, 9 th ed., Brooks Cole Publishing Company, (2013).
7. R. C. Alkire, D. M. Kolb, J. Lipkowsky, *Biselectro chemistry*, volume 13, 13th ed., Publisher: Wiley-VCH Verlag GmbH & Co. ISSN: 0938-5193.



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Assistant Director (Auction) (B-17) in the Mines & Mineral Development Department

Advt. No. : 07/2021

Qualification:

- Master's Degree in Commerce (M.Com) **OR** Bachelor's Degree in Commerce (B.Com) at least in Second Division from a recognized University; **OR**
- Bachelor's Degree at least in Second Division in Business Administration (BBA) from a recognized University.

Subjective Paper in:

Part-I (40) Marks

- English Essay (20) Marks
- English Comprehension (20) Marks

Part-II (60) Marks

- Financial Accounting
- Cost & Management Accounting
- Human Resource Management
- Financial Management
- Financial Reporting
- Principles of Management
- Taxation Structure & Administration in Pakistan, basic features of sales tax & its application.

Recommended Books:

1. Professor Muhammad Ammanullah Khan: *Financial Accounting, Latest Edition.*
2. Meigs and Meigs, *Accounting for Business Decision, 9th Edition/Latest Edition.*
3. Matz, Hammer Usry (1985) 9th edition *Cost Accounting South-western Publishing Co.*
4. James C. Vanhorne: *Fundamentals of Financial Management.*
5. Mary Coulter & Robbins, *Management, International Edition.*
6. James C. Vanhorne: *Fundamentals of Financial Management*
7. By Luis R. Gomez Mejia, David B. Balkin, Robert L. Cardy *Managing Human Resources. (Fourth ed.)*



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Technician (B-16) in the Labour & Manpower Department

Advt. No. : 07/2021

Qualification: Diploma in Associate Engineering in Auto OR Textile from a recognized University.

MCQs test in the relevant Technology:

Auto Mobile & Diesel Technology

- a) Motor Vehicle Driving
- b) Motor Vehicle Inspection
- c) Fuel Injection & Carburetion
- d) Automotive Transmission
- e) Computer Application in CAD & Automation
- f) Auto Body Building & Finishing

Textile Spinning Technology

- a) Advance Yarn Manufacturing Technology
- b) Textile Spinning Repair & Maintenance
- c) Fiber & Yarn Quality Evaluation
- d) TQM and Process Control in Spinning
- e) Mill Engineering & Services

Recommended Books Textile Spinning Technology:

1. *Fundamentals of Total Quality Management* by Jeans J. Dahlgaard, Kai Kristenser, and Gopal K. Kanji. (1998) Taylor and Francis.
2. *Textile Mill Technical Data Book* by R. Jagannathon
3. *Spinning Maintenance Manual* - SITRA
4. *Advances in yarn spinning technology*. Edited by C. A. Lawrance (2010). Woodhead
5. *Manual of Cotton Spinning* by A.E. De. Barr (The Textile Institute U.K).

Recommended Books Auto Mobile & Diesel Technology:

1. *Auto CAD-2012 for Engineers & Designers* by Professor SmamTichro
2. *Automotive Body Work and Rust Repair* by M. Joseph
3. *Automotive Technology A System Approach* by Jack Erjavec
4. *Motor Vehicle Inspection* by W. H. Crouse & D. L. Anglin
5. *Book of Driving* by Automobile Association.
6. *Automotive Excellence (Volume 1 & 2)* by McGRAW Hill International



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Assistant Director (Planning) (B-17)

AND

Town Planning Officer (B-17) in the Urban Planning & Development Department

Advt. No. : 07/2021

Qualification:

- Bachelor's Degree in City & Regional Planning from a recognized University; **AND**
- Registered as Town Planning Officer with Pakistan Council of Architects and Town Planners (PCATP).

MCQs Test in the following Subjects:

- 1. Mapping and Remote Sensing**
- 2. Transportation Engineering**
- 3. Transportation Planning**
- 4. Environmental Planning and Management**
- 5. Climate Change and Disaster Management**
- 6. Urban Regeneration and Conservation**
- 7. Building Construction Technology**
- 8. Spatial Development Planning**
- 9. Regional Planning**
- 10. Estate Management**

Recommended Books:

- Xian, George (2016), Remote Sensing Applications for the Urban Environment, CRC Press.*
- Chakroborty, P. & Das, (2003), A Principles of Transportation Engineering, New Delhi, Prentice-Hall.*
- Schiller, Preston. (2010), An Introduction to sustainable Transportation: policy, planning and implementation, Earth scan.*
- Momtaz, S., Kabir S. M. Z. (2013), Evaluating Environmental and Social Impact Assessment in Developing Countries, Waltham, US, Elsevier Inc.*
- Edward Ng. (2015), The Urban Climatic Map: A Methodology For Sustainable Urban Planning, Routledge.*
- Kam, Y. Y. (2017) Area-based Conservation and Urban Regeneration: a Case Study of Nga Tsin Wai Village Redevelopment Project*
- Arora, N. L and Gupta B. R, (1988), "Building Construction", Lahore, Malik Book Depot.*
- Eric Firley and Katharina Groen (2013), The Urban Master Planning Handbook (Latest Edition), Wiley, ISBN-13: 978-0470972250 ISBN-10: 0470972254.*
- Glasson, John, (2007) An Introduction to Regional Planning, London, Hutchison, (Latest Edition).*
- Ken McElroy (2015), The ABCs of Property Management: What You Need to Know to Maximize Your Money*



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Assistant Engineer (B-17) in the Planning & Development Department

Advt. No. : 07/2021

**Qualification: 2nd Class Degree in B-Arch, BE (Civil Engineering)
from a recognized University and registration with
PCATP/PEC.**

MCQs test in the relevant Technology:

Bachelor's Degree in Architecture

- a) History Of Architecture
- b) Architectural Design
- c) Materials And Construction
- d) Urban Design And Planning
- e) Structures For Architects
- f) Landscape Architecture
- g) Heritage Conservation
- h) Climatology
- i) Services And Engineering Systems
- j) Interior Design

Bachelors of Engineering in Civil Technology

- a) Building Materials and Constructions
- b) Design of Structures
- c) Engineering Mechanics
- d) Strength of Materials
- e) Structural Analysis
- f) Fluid Mechanics and Hydraulic Engineering
- g) Water Resources Engineering:
- h) Sanitation and Water Supply (Environmental Engineering
- i) Hydraulic Machines and Hydropower
- j) Irrigation Engineering
- k) Surveying, Estimation & Costing
- l) Transportation Engineering
- m) Construction Planning & Management
- n) Design of Masonry Structures

**NOTE: BOOKS ALREADY RECOMMENDED BY
PEC/HEC/PCATPCURRICULUM FOR BACHELORS OF
ENGINEERING IN CIVIL AND BACHELORS DEGREE IN
ARCHITECTUREWITH EMPHASIS ON ABOVE MENTIONED
SUBJECTS.**



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samungli Road, Quetta Cantt.

Syllabus for the post of Assistant Account Officer (B-16) in the Agricultural Engineering Department

Advt. No. : 07/2021

Qualification:

- a) Bachelor's Degree at least in Second Division in Commerce (B.Com) from a recognized University; **OR**
- b) Bachelor's Degree at least in Second Division in Business Administration (BBA) from a recognized University.

Subjective Paper in the following Subjects:

Financial Management:

Financial Management: Introduction, Meanings and Definitions, Goals of Financial Management, Finance Functions, Time valuation concept, Present value concept, Short-term Finance, Long-term Funds, Financial statement analysis and use of Financial Ratios, Computation of cost of Capital, Nature and Techniques of capital Budgeting, Concepts of working capital, Nature and Scope of working capital management, Capital budgeting process

Financial Accounting

Financial Accounting: Nature and objectives, Use of financial statements, Users of Accounting information, Accounting Principles, Accounting Standards, Capital and Revenue receipts and payments, Origin and Analysis of Business Transaction. Types of Accounts, Journals, Ledger and Trail Balance, Depreciation methods and accounting, Inventory valuation techniques using perpetual and periodic system, Statements of cash flows, Control of Cash Transactions and Bank Reconciliation Statement, Capital & Revenue Expenditures, Capital & Revenue Receipts, Capital & Revenue Profits, Capital & Revenue Losses.

Books Recommended

1. *Human Resources Management, written by Gary Dessler 8th Edition*
2. *Human Resource Management: Gaining A Competitive Advantage with PowerWeb and Student CD by Raymond A. Noe, John R. Hollenbeck*
3. *Financial Management: Core Concepts: Author: Raymond M. Brooks*
4. *Financial Management: Theory & Practice (with Thomson One – Business School Edition)*
5. *The Basics of Public Budgeting and Financial Management: A Handbook for Academics and Practitioners —by— Charles E. Menifield (Author)*
6. *Financial Accounting: An Introduction to Concepts, Methods, and Uses by Clyde P. Stickney, Roman L. Weil, Hardcover*
7. *Financial Accounting: Tools for Business Decision Making by Paul D. Kimmel, Jerry J. Weygandt, Donald E. Kieso*



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samungli Road, Quetta Cantt.

Syllabus for the post of Speech Therapist (B-17) in the Social Welfare, Special Education, Literacy, Non-Formal Education & Human Rights Department

Advt. No. : 07/2021

Qualification: M.S/B.S/B.Sc. (Hons) at least in Second Division in Speech and Language Therapy/ Pathology from a recognized University.

MCQs Test in the following Subjects:

1. Ethics In Speech and Language Pathology
2. Dysphagia
3. Motor speech disorders
4. Cranio facial and Resonance Disorder
5. Behaviour management in SLP
6. Neurosciences for SLP
7. Alternative Augmentative Communication
8. Articulation & Phonological Disorders
9. Acoustics and Audiology
10. Voice Disorders
11. Language Disorders

NOTE: **BOOKS ALREADY RECOMMENDED BY HECCURRICULUM FOR BACHELOR IN SPEECH AND LANGUAGE THERAPY/ PATHOLOGY WITH EMPHASIS ON ABOVE MENTIONED SUBJECTS.**



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

Syllabus for the post of Hardware Technician (BPS-16) in the Balochistan Public Service Commission.

Advt. No. : 08/2021

Qualification: Bachelor's Degree in Computer Engineering or equivalent qualification in the relevant technology from a recognized University; and having registration with Pakistan Engineering Council.

MCQs test in the following Subjects:

- 1. Computer Communication and Networks**
- 2. Microprocessors and Interfacing**
- 3. Operating Systems**
- 4. Data Base Management**
- 5. Software Engineering**
- 6. Digital Signal Processing**
- 7. Digital System Design**

Books Recommended

- 1. Peter J. Ashenden, "The Designer's Guide to VHDL", 2nd Edition, Morgan Kaufman*
- 2. John G. Proakis and Dimitris K. Manolakis, "Digital Signal Processing –Principles, Algorithms and Applications," 4th Edition, Prentice Hallor Latest Edition.*
- 3. Pressman, Roger S., "Software Engineering: A Practitioner's Approach", 6th Edition, McGraw Hill.*
- 4. C. J. Date, "Database Systems", Addison Wesley, 2004, or Latest Edition.*
- 5. Operating Systems: Internals and Design Principles, 8th Edition, William Stallings, Prentice-Hall, 2014.*
- 6. Douglas V. Hall, "Microprocessor and Interfacing", Tata McGraw-Hillor Latest Edition.*
- 7. Data and Computer Communication by William Stallings, 7th Edition or Latest, Prentice Hall.*



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

**Syllabus for the post of Assistant Director (Environment)
(B-17) in the Urban Planning & Development Department.**

Advt. No. : 06/2020

**Qualification: Master's Degree at least in Second Division in
Environmental Science from a recognized University.**

Subjective paper in the following Subjects:

1. Applied Ecology
2. Environmental Toxicology
3. Environmental Economics
4. GIS & RS
5. Environmental Management
6. Biodiversity and Conservation
7. Environmental Monitoring
8. Climate Change
9. Environmental Impact Assessment
10. Natural Resource Management
11. Environmental Governance
12. Public Health and Environment
13. Pollution Control Technologies

**NOTE: BOOKS ALREADY RECOMMENDED BY HECCURRICULUM FOR
BS ENVIRONMENTAL SCIENCE WITH EMPHASIS ON ABOVE
MENTIONED SUBJECTS.**



BALOCHISTAN PUBLIC SERVICE COMMISSION

Samunqli Road, Quetta Cantt.

**Syllabus for the post of Lecturer Instructor (Male) B-17 in
Industrial Training Officer in Colleges, Higher & Technical
Education Department.**

Advt. No. : 12/2019

Qualification: Bachelor of Engineering Degree at least 2nd Division or Equivalent qualification in the relevant technology from a recognized University.

MCQs test in the following Subjects:

1. Introduction of industry
2. Industry/manufacturing plant lay out and modify modern melting shops layout (at training place)
3. Hierarchy of industry/organization chart.
4. Types of major equipment/instruments/machines used in industry with their specification, approximate cost and specific use.
5. Particulars of Practical Experiences in industry/Metal testing Laboratories/Production/ Assembly/ Testing of micro-structure/bars of the relative produced metal/alloy, Faults and remedies of furnace malfunctioning/rolling mills, Calibration of testing equipment.
6. Stringent Quality of Cast/Rolled/Forged/joined Products by using software for Manufacturing Process and fully or Partially Automatic Equipment's.

NOTE: BOOKS ALREADY RECOMMENDED BY HEC/PEC WITH EMPHASIS ON ABOVE MENTIONED SUBJECTS.