



BALUCHISTAN PUBLIC SERVICE COMMISSION

(Examination Branch)
Samungli Road, Quetta Cmtd.

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PRESS RELEASE

No.BPSC/Exam/Syllabus/8/2026/ 523-528. It is hereby notified for information of the concerned candidates that detailed syllabi for the following posts in the Health Department and Technical Wing (**Men's Section**) in the Colleges Higher & Technical Education Department have been uploaded and available on the official website of the Balochistan Public Service Commission (www.bpsc.gob.pk).

S.No	Name of Posts	Mode of Exam
1.	Senior Registrar (B-18) (Vascular Surgery) in the Trauma Centre & Emergency (Health Department)	MCQs
2.	Senior Lecturer (B-18) (Medical Education Department) in the Bolan Medical College (Health Department).	MCQs
3.	Lecturer Technical (B-17) (Industrial Electronics) in Technical Wing (Men's Section) in the Colleges Higher & Technical Education Department	MCQs
4.	Lecturer Technical (B-17) (Refrigeration and Air-conditioning Technology RACT) in Technical Wing (Men's Section) in the Colleges Higher & Technical Education Department	MCQs

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Samungli Road, Quetta Cantt.

Syllabus for the Post of Senior Registrar (B-18) Vascular Surgery (Clinical Sub-Specialties) in Trauma Centre & Emergency, Health Department.

Mode of Exam: MCQs

Course contents

- **Vascular Biology and Basics:** Embryology, anatomy, and physiology of the vascular system.
- **Aortic Aneurysmal Disease:** Diagnosis and management (Open and Endovascular repair - EVAR/TEVAR).
- **Peripheral Artery Disease (PAD):** Acute and chronic limb ischemia, revascularization techniques (bypass, angioplasty).
- **Carotid Artery Disease:** Stroke prevention, carotid endarterectomy, and stenting.
- **Venous Disease:** Deep Vein Thrombosis (DVT), Pulmonary Embolism (PE), chronic venous insufficiency, and superficial vein treatment (Endovenous laser/RF ablation).
- **Vascular Access:** Creation and maintenance of access for hemodialysis.
- **Vascular Trauma:** Management of acute arterial and venous injuries.
- **Non-atherosclerotic diseases:** Vasculitis, Vasospastic disorders, Lymphedema, and Thoracic Outlet Syndrome (TOS).
- **Endovascular Techniques:** Basic principles, imaging, and intervention for peripheral and visceral vessels.

Recommended Books and Resources

Candidates are expected to have in-depth knowledge from the following standard textbooks:

- **Rutherford's Vascular Surgery and Endovascular Therapy (2-Volume Set, latest edition)** - Considered the standard reference.
- **Moore's Vascular and Endovascular Surgery: A Comprehensive Review.**
- **Clinical Scenarios in Vascular Surgery** (Gilbert R. Upchurch Jr., Bauer E. Sumpio).
- **Anatomic Exposures in Vascular Surgery** (R.R. Hoshaw, G.M. Deeb).
- **Operative Techniques in Vascular Surgery.**
- **Handbook of Patient Care in Vascular Diseases.**



BALUCHISTAN PUBLIC SERVICE COMMISSION

Samungli Road, Quetta Cantt.

Syllabus for the Post of Senior Lecturer (B-18) Medical Education Department (Basic Medical Subjects) in Bolan Medical College.

Mode of Exam: MCQs

Course contents

1. Theories of learning and skill development.
2. Student-centered learning, active learning, deep learning, collaborative learning
3. Strengths and weakness of different teaching methods
e.g. lectures, small group teaching,
independent/resource-based learning
4. Using reflective practice to promote learning
5. Using technology to enhance learning
6. Educational principles and theories related to clinical teaching and learning
7. Teaching communication skills in clinical settings
8. Teaching skills of problem-solving and clinical diagnosis
9. The public/private divide in medical education
10. Research methodologies and approaches in medical education
11. Characteristics of research questions/problems in medical education
12. Data collection and analysis: problems and pitfalls
13. Preparation of a research plan
14. Gender issues in medical education
15. Cultural and socio-economic influences on health and disease patterns
16. Principles of assessment: validity/reliability/fairness

17. Setting standards in assessment: norm-referencing/criterion-referencing/ ipsative assessment
18. Purposes of assessment: formative/summative
19. Strengths and weaknesses of assessment methods, e.g. - 'Objective' assessment: MCQ/SEQ/EMI etc. - Discursive assessment: essays, reports etc. - Clinical assessment tools: mini-CEX, DOPs, OSCEs etc. - Portfolio-based assessment
20. Designing high-quality assessment tasks
21. Feedback tools and strategies
22. Self- and peer-assessment
23. Assessing reflection

Recommended Books

- **A Practical Guide for Medical Teachers (4th Ed.)** by Dent and Harden: A fundamental resource for instructional methods.
- **Assessment in Health Professions Education** by Downing and Yudkowsky: Focuses on evaluation techniques in medical and allied health fields.
- **Essential Skills for a Medical Teacher** by Harden and Laidlaw: Covers core competencies for educators.
- **Curriculum Development for Medical Education** by Kern, Thomas, and Hughes: A key text on educational design.
- **Innovative Teaching Strategies in Nursing and Related Health Professions**: Focuses on teaching methodologies in nursing and health sciences.
- **Health Professions Educator Journal (HPEJ)**: A peer-reviewed journal published by the University of Lahore, covering curriculum planning, teaching methods, and student assessment.



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Syllabus for the post of Lecturer Industrial Electronics (B-17) in the Colleges Higher Technical Education **Department**

Mode of Exam MCQs

Course contents

1. Circuit Theory
2. Solid State Electronics
3. Signals and Systems
4. Digital Logic Design
5. Electronic Circuit Design
6. Integrated Circuits
7. Microprocessors and Microcontrollers
8. Probability and Random Variables
9. Instrumentation and Measurements
10. Linear Control Systems
11. Electromagnetic Theory
12. Communication Systems
13. Digital Signal Processing
14. Embedded System Design
15. Data Communication and Networks
16. Microwave Electronics
17. Domestic wiring & soldering
18. Basic Electrical Engineering
19. Measuring Instruments
20. Technical Drawing
21. I.T Fundamental
22. Relay logic & PCB design
23. Analog electrics
24. Digital electrics
25. Technical math
26. Technical drawing

27. Industrial wiring
28. AC/DC Machines
29. Power electronics
30. AC/DC drives
31. Microprocessor techniques & Micro-controller
32. Electro pneumatics
33. Programmable logic control (PLC)
34. Processor variable measurement

Recommended BOOKS

1. William H. Hayt, Jack Kemmerly and Steven M. Durbin, Engineering Circuit Analysis, 8th Edition, 2012, McGraw-Hill
2. Solid State Electronic Devices, 7th Edition, by Ben Streetman and Sanjay Banerjee, Pearson; (March 19, 2014)
3. Erwin Kreyszig, "Advanced Engineering Mathematics", 10th edition, John Wiley & Sons, 2011.
4. V. Oppenheim, A. Willsky with S. Hamid, Signal and Systems, 2nd Edition, Prentice Hall, 1998
5. Mano, Kime and Martin, "Logic & Computer Design Fundamentals", 5th Edition, 2016, Pearson
6. Donald A. Neaman, Microelectronics Circuit Analysis and Design, 4th Edition, 2010, McGraw-Hill.
7. Microelectronic Circuits, 7th edition by Adel S. Sedra and Kenneth C. Smith, Oxford University Press; (November 14, 2014).
8. Douglas V. Hall, "Microprocessor and Interfacing", Revised Second Edition, 2005, Tata McGraw-Hill.
9. Leon Garcia - Probability, Statistics and Random Processes for Electrical Engineering 3rd edition, 2008, Pearson.
10. Klaas B. Klaassen and Steve Gee, "Electronic Measurement and Instrumentation," 1996, Cambridge University Press.
11. Constantine H. Hopis "Linear Control System" 6th edition, 2013 CRC Press.
12. Pozar M.D, "Microwave Engineering", 4th edition, 2011
13. B.P. Lathi, "Modern Digital and Analog Communication Systems", 4th Edition, 2009, Oxford University Press.
14. John G. Proakis and Dimitris K Manolakis, "Digital Signal Processing Principles, Algorithms and Applications", 4th Edition, 2006, Prentice Hall.
15. Han-Way Huang, "PIC Microcontroller and Introduction to Software and Hardware Interfacing", Delmar, 2004.
16. Pozar M.D, "Microwave Engineering", 4th edition, 2011
17. Electric Wiring: Domestic (Brian Scaddan):

18. Basic Electrical Engineering by V.K. Mehta and Rohit Mehta.
19. Electrical Instrumentation and Measurement Techniques by A.K. Sawhney
20. Technical Drawing by David L. Goetsch, William S. Chalk, John A. Nelson, and Raymond L. Rickman.
21. "Logic and Computer Design Fundamentals" by Morris Mano and Charles R. Kime
22. Modern Digital and Analog Communication Systems by B.P. Lathi
23. Technical Mathematics 123 by Ghulam Yasin Minhas
24. Electrical Machines by I.J. Nagrath & D.P. Kothari
25. "Microprocessors and Interfacing: Programming and Hardware" by Douglas V. Hall (Covers 8086/8085 architecture and interfacing)
26. Programmable Logic Controllers - John W. Webb & Ronald A. Reis:
27. Process Systems Analysis and Control by Coughanowr & LeBlanc.



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Syllabus for the post of Lecturer (Refrigeration & air conditioning Technology) (B-17)

Mode of Exam: MCQs

Course contents

1. Mathematics
2. Applied Physics
3. Applied Chemistry
4. Computer Systems and Programming
5. Engineering Drawing and Graphics
6. Introduction to Engineering
7. Electrical Engineering
8. Workshop Practice
9. Engineering Materials
10. Engineering Mechanics
11. Thermodynamics
12. Electronics Engineering
13. Fluid Mechanics
14. Thermodynamics Lab
15. Internal Combustion Engines
16. Technical Elective
17. Mechanisms and Mechanical Vibrations Lab
18. Introduction to Finite Element Analysis
19. Entrepreneurship

Recommended Books

1. J L Meriam, L G Kraig, Engineering Mechanics (Statics): John Wiley & Sons Inc
2. Halliday, Resnick and Walker, *Fundamentals of Physics*, John Wiley & Sons
3. W. H. Brown and L. S. Brown, *Chemistry for Engineering Students*, Cengage Learning.
4. N.D Bhatt, *Engineering Drawing and Graphics*
5. Paul H. Wright, *Introduction to Engineering*
6. J L Meriam, L G Kraig, *Engineering Mechanics (Statics)*: John Wiley & Sons Inc
7. J. T. Black, Ronald A. Kohser, *DeGarmo's Materials and Processes in Manufacturing*, Wiley

8. Yunus A. Cengel, Michael A., *Thermodynamics: An Engineering Approach*, McGraw-Hill.
9. Munson, Young, Okiishi, HT John, *Fundamentals Of Fluid Mechanics*, J. Wiley & Sons.
10. W. W. Pulkrabek, *Engineering Fundamentals of IC engine*, Pearson Education Inc, USA
11. Rober D. Hisrich and Michael P. Peter, *Entrepreneurship/lip*, 5th Edition, McGraw Hill
12. Richard G. Budynass, *Advanced Strength and Applied Stress Analysis*, McGraw-Hill
13. P P Benham, R J Crawford, C G Armstrong, *Mechanics of Engineering Materials*,
14. William H. Hayt, Jack Kemmerly and Steven M. Durbin,
15. "Engineering Circuit Analysis," Seventh Edition, 2006, McGrawHill
16. Robert Paynter, "Introductory Electronic Devices and Circuits:
17. Electron Flow Version," Seventh Edition, 2006, Prentice Hall.
18. P. J. Deitel, H. Deitel, *C++ How to Program*, 10th Edition, 2017, Pearson.
19. Rober D. Hisrich and Michael P. Peter, *Entrepreneurship/lip*, 5th Edition, McGraw Hill