



BALUCHISTAN PUBLIC SERVICE COMMISSION

(EXAMINATIONS BRANCH)

Samungli Road, Quetta Cantt.

Dated Quetta, the 21st December 2021

PRESS RELEASE

No.BPSC/EXAM/SYLLABUS/8/2021/152-58 It is notified for information of candidates who applied against the posts of Sub Divisional Officer / Assistant Director (Civil) (B-17) in the Building Physical Planning and Housing Department advertised through Advertisement No. 04/2021 by this Commission that their MCQs test would be held in accordance with the syllabus available at the official website of BPSC www.bpsc.gov.pk:-

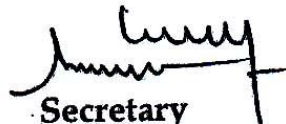
Note:- The date and time of abovementioned test would be announced in due course of time

Secretary
Balochistan Public Service
Commission

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Copy to :

1. The Director General, Public Relations Balochistan, Quetta for publication in the Daily Newspaper.
2. The DAILY JANG, DAILY EXPRESS, DAILY MASHRIQ QUETTA and INTIKHAB, Hub.
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SYLLABUS FOR THE POSTS OF SUB DIVISIONAL OFFICER/A.D. (CIVIL) (B-17) IN THE BUILDING, PHYSICAL, PLANNING & HOUSING DEPARTMENT, ADVERTISED VIDE ADVT. NO 04/2021.

SYLLABUS:

1. Building Materials and Constructions

Engineering Materials, Building Construction, Functional Planning of building

2. Design of Structures

Design of RC Structures, Design of Steel Structures

3. Engineering Mechanics

Static, Dynamic, Kinetics

4. Strength of Materials

Simple Stress and strain, Shear force and bending moment, Deflection of beams, Theories of column and struts, Thin and thick cylinders

5. Structural Analysis

Analysis of determinate structures, Analysis of indeterminate skeletal frames, Plastic analysis of indeterminate beams and simple frames, Moving loads-shearing force and bending moment diagrams

6. Fluid Mechanics and Hydraulic Engineering

Dynamics of fluid flow, Viscous flow, Incompressible flow through pipes, Compressible flow, Open channel flow

7. Water Resources Engineering:

Hydrology, Ground water flow, Planning of water resources

8. Sanitation and Water Supply (Environmental Engineering):

Sanitation, Disposal of sanitary sewage, Sewer treatment, Environmental pollution and ecology, Water Supply, Intake of water, Water storage and distribution

9. Hydraulic Machines and Hydropower

Hydraulic pumps, Reciprocating pumps, Hydraulic turbines, Principles of hydropower development

10. Irrigation Engineering

Water requirement for crops, Distribution system for canal irrigation, Design of canals, Canal structures, Water logging, Diversion headwork's, Storage works, Spillways, River training

11. Surveying, Estimation & Costing

Surveying, Estimating and costing

12. Transportation Engineering

Airports, Harbors, Railways, Roads, Traffic engineering, tunneling

13. Construction Planning & Management

Earthwork equipment's, Concreting equipment's, Planning & Management, Network Analysis

14. Design of Masonry Structures

Material, Types of structures, Types of stone masonry

Suggested Readings:

1. Edward Allen, Joseph Iano; *Fundamental of Building Construction Materials and Methods*; John Wiley & Sons. NY 2004.

2. Blyth, F. G. H. *Geology for Engineers*, Butterworth-Heinemann, 7th Edition, 1984

3. Hibbeler, R. C. *Engineering Mechanics- Statics and Dynamics*, Prentice Hall. (10th Edition), 2003

4. Hibbler, R. C., *Mechanics of Materials*, Prentice Hall, 6th Edition, 2004.

5. S. Dutta, *Estimating and Costing in Civil Engineering*, 24th Ed. SOS Free Stock, 1999

6. H. H. West, *Fundamentals of Structural Analysis*, John Willey-New York, 2nd Edition, 2002

7. Arthur H Nilson, David Darwin, Charles W. Dolan, Arthur Nilson, Charles Dolan, *Design of Concrete Structures*. 2003, McGraw-Hill

8. *Building Construction: Principles, Materials, and Systems 2009 Update*. Medan Mehta, Walter Scarborough and Diane Armppriest.

9. R. C. Hibbeler, *Mechanics of Materials*, Prentice Hall; 8th edition (April 1, 2010)