

Rastriya Banijya Bank Limited

Syllabus for Level-6 Assistant Manager(Engineer Civil) Open Competition Written Examination.

Paper	Subject	Full Marks	Time	Exam type	Answer Choice
First	Banking, Economics and Management	100	3 hours	Written	5 out of 7
Second	Engineering	100	2 hours 30 Minutes	Written	5 out of 7

First Paper

Full marks: 100

Subject : Banking, Economics and Management

A. Banking and Economics:

1. Development of Banking in Nepal
2. Types of Banks and Financial Institutions
3. Role of Commercial Bank in Economic Development
4. Deposit Mobilization and Credit Creation
5. Challenges and Opportunities of Banking Sector
6. Monetary Policy
7. Nepal Rastra Bank Bank Act, 2058
8. BAFIA, 2063
9. Public Procurement Act 2063 (with amended & Regulation)
10. Anti Money Laundering Act, 2064

B. Management:

1. General Knowledge on Principle of Management
2. Role & Importance of decision making & Leadership.
3. Major elements to effect on work performance, morale & motivation.
4. Conflict Management
5. Importance of MIS
6. A Problem will be given to the candidate & the candidate will have to analyses rigorously on the given problem which will be related with the banking sector & should recommend appropriate solution in relation to the particular problem.

Second Paper

Full marks: 100

Subject : Engineering

1. Engineering Survey

a) Basic Principal of Surveying

b) Plane table surveying:

- i. Method of Plane Tabling ii) Two and three point problems iii) Source of errors

c) Leveling and contouring

- ii) Principal of Leveling ii) Method of Leveling iii) Trigonometric Leveling iv) Characteristics of contour

d) Theodolite traversing

- i) Temporary adjustments of Theodolites ii) Traverse and its significance iii) Computation of coordinates

e) Setting Out:

- i) Small buildings ii) Simple curves

2. Construction Materials

a) Stone

- i) Characteristics ii) Requirements of Stones as a building materials

b) Cements

- i) Different types cement ii) Storage and transport iii) Cement motar tests iv) Admixtures

c) Bricks

- i) Types ii) Manufacture iii) Laying and bonds

d) Metals: Types and properties

e) Composite material : Types and properties

3. Structural Analysis and Design

a. R.C. Sections in bending.

- i) Under reinforced, Over reinforced and balanced sections
- ii) Analysis of single and double reinforced rectangular section

- b) Shear resistance of R.C. sections.
 - i) Shear resistance of R.C. section
 - ii) Types of shear reinforcement and their design
 - iii) Determination or anchorage length
- c) Axially Loaded R.C. Columns
 - i) Short and Long Columns
 - ii) Design of a rectangular column section

4. Soil Mechanics

- a) **General**
 - i) Soil types and classification
 - ii) Three phase system of section
 - iii) Unit weight of soil mass : bulk density, saturated density, submerged density and dry density
 - iv) Interrelationship between specific gravity, void ratio, porosity, degree of saturation, percentage of air void air content and density index
- b) **Compaction of soil**
 - i) Factors affecting soil compaction
 - ii) Optimum moisture content
 - iii) Relation between dry density and moisture content

5. Building Construction Technology

- a) **Foundations**
 - i) Subsoil exploration
 - ii) Types and suitability of different foundation: shallow, deep
 - iii) Shoring and dewatering
 - iv) Design of simple brick or stone masonry foundations
- a) **Walls**
 - i) Types of wall & their functions
 - ii) Choosing wall thickness, Height to length relation
 - iii) Use of scaffolding
- b) **Damp Proofing**
 - i) Sources of Dampness
 - ii) Remedial measures to pre-went Dampness
- c) **Concrete Technology**
 - i) Constituents of cement concrete
 - ii) Grading of aggregates
 - iii) Concrete mixes
 - iv) water cement ratio
 - v) Factors affection strength of concrete
 - vi) Form work
 - vii) Curing

6. Estimating and Costing, Valuation and Specifications

- a) Methods of calculation quantities
- b) Key components of estimating norms and rate analysis
- c) Preparation or bill of quantities
- d) Purpose, types and importance of specification
- d) Purpose, principles and methods of valuation

7. Construction Management

- a) **Construction scheduling and planning**
 - i) Network techniques (CPM, PERT)
 - ii) Bar chart
 - iii) Gantt Chart
- b) **Contractual procedure and management**
 - i) Types of contract
 - ii) Tender and tender notice
 - iii) Preparation of bidding document
 - iv) Contractors pre qualification/Post qualification
 - v) Evaluation of tenders and selection of contractor
 - vi) Condition of contract
 - vii) e-binding
 - viii) Single envelope & double envelope system

8. Professional Practices

- a) Ethics and professionalism : Code of conduct and guidelines for professional engineering practices
- b) Relation with clients, contractor and fellow professionals
- c) Copy right act
- d) Design patent & trademark
- e) Building by law
- f) NBC Codes
- g) Nepal Engineer Council (professional association including Act)
- h) Labour Act 2048

द्रष्टव्य :

- (१) परीक्षाको माध्यम नेपाली भाषा हुनेछ ।
- (२) यस पाठ्यक्रममा जेसुकै लेखिएको भएतापनि प्रत्येक विषयमा परेका ऐन नियमहरु परीक्षाको मिति भन्दा ३ (तिन) महिना अगाडी संशोधन भएको र खारेज भएको जतिको हकमा संशोधन वा खारेज भई कायम रहेकालाई यस पाठ्यक्रममा परेको सम्झनु पर्नेछ ।
- (३) लिखित परीक्षाको प्रत्येक पत्रमा न्यूनतम ४०% (प्रतिशत) अङ्क प्राप्त गर्नु पर्नेछ ।

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4. History of Architecture

a. Building Design

b. Working Drawing

c. History of Architect in Nepal

- i. Modern Architect ii. Traditional Architect iii. Newari Architect

d. Building by Laws

e. Planning

- i) Land development ii) Master Plan iii) Periodic Plan iv) IAP (Interrogate Action Plan)
v) Physical Plan vi) GLD (Guide line Develop) vii) Land Pooling viii) Side and Service ix) Landscap

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- b) Relation with clients, contractor and fellow professionals
- c) Nepal Engineer Council

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