

लोक सेवा आयोग  
नेपाल इन्जिनियरिङ्ग सेवा, जियोलोजी समूह, इन्जिनियरिङ्ग जियोलोजी उप-समूह राजपत्राङ्कित प्रथम  
श्रेणी, सहसचिव वा सो सरह पदको खुला तथा आन्तरिक प्रतियोगितात्मक लिखित परीक्षाको  
पाठ्यक्रम

द्वितीय पत्र :- प्राविधिक विषय

1. Introduction
  - 1.1 Role of Engineering Geology in planning, design, construction and maintenance of infrastructures
  - 1.2 Scope and Objectives of Engineering Geology
  - 1.3 Importance of Engineering Geological Studies in Nepal
2. General Geology
  - 2.1 Geology of Nepal Himalaya and Status of Geological Mapping in Nepal
  - 2.2 Stratigraphy and Global Tectonics
  - 2.3 Relevance of Geology for Engineering design
3. Geological Data Collection
  - 3.1 Reconnaissance, Feasibility, Detail Investigations
  - 3.2 Reliability, applications and utilization of field data in design
4. Construction Materials
  - 4.1 Use of different natural materials as Construction Materials
  - 4.2 Their Classification systems and applicability
  - 4.3 Selection Criteria
5. Engineering Geology with reference to different phases of engineering works
  - 5.1 Pre-construction
  - 5.2 Construction
  - 5.3 Operation and Maintenance
  - 5.4 Post-construction
6. Tunneling and Underground Excavation
  - 6.1 Use of Tunnels for various projects
  - 6.2 Tunneling Techniques
  - 6.3 Problems encountered during tunneling in Nepal
7. Application of Engineering Geology for Civil Engineering Projects
  - 7.1 Urban Development and Regional Planning
  - 7.2 Hydropower structures including Dam and Reservoirs
  - 7.3 Roads and Bridges
  - 7.4 Irrigation

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8. Policies, Program and Activities

- 8.1 Government Policies, Strategy and Programs to Water Resources Development Projects, their promotion from Government and Private Sectors
- 8.2 Current and Preceding Periodical Plans

9. Project Planning and Evaluation

- 9.1 Project Identification, Project Formulation, Appraisal, Implementation, Supervision, Monitoring and Evaluation
- 9.2 Project Planning, Budgeting and Resource Mobilization
- 9.3 Project Management, Leadership, Decision Making and Contract Negotiation
- 9.4 Project Reporting

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