

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

## द्वितीय पत्र :- प्राविधिक विषय

### **1. Historical Introduction**

- 1.1 Historical background of Department of Mines and Geology, its objective, role and activities.
- 1.2 Historical background of mineral exploration including petroleum, mining and mineral based industries in Nepal

### **2. Geology**

- 2.1 Geology and present status of Geological Maps of Nepal.
- 2.2 Review of international parameters of Geological maps and possibility of its implementation for upgrading and improvement of Geological maps of Nepal
- 2.3 Status of Engineering and Environment Geology of Nepal

### **3. Mineral Resources exploration and Exploitation**

- 3.1 Present status of exploration of mineral resources in Nepal for metallic, nonmetallic fuel/energy mineral, precious, semiprecious minerals, construction materials
- 3.2 Potential area for mineral exploration and development of metal, nonmetal, energy minerals, precious semiprecious minerals, construction minerals and petroleum
- 3.3 Problems, issues, constraints, and challenges for exploration work of mineral resources including petroleum in Nepal and their remedial measures
- 3.4 Present Status of mineral exploitation, development and promotion of mineral based industries
- 3.5 Problem, issues, constrains, and challenges for mining and mineral based industries in Nepal and their remedial measures
- 3.6 Role of mineral resources development minerals based industries on economy of the country
- 3.7 Role of mineral resources development in other sector's development activities such as poverty alleviation, rural development, employment generation, development of infrastructure, agriculture and hydropower

#### **4. Environment in mining industry**

- 4.1 Consideration of environmental issues in mines and mining industry for sustainable development of the country.
  - 4.1.1 Conservation of minerals resources
  - 4.1.2 Land reclamation and rehabilitation
  - 4.1.3 Waste disposal management
  - 4.1.4 Health and safety

#### **5 Mine management**

- 5.1 Identification of mining project, project planning, project formulation, project appraisal, Monitoring and Evaluation of the mining projects.
- 5.2 Mine management, leadership, decision making and contract negotiation in mining projects including petroleum.
- 5.3 Resources Management including financial and human resources development to fulfilling mining industry

#### **6 Government Policies, Strategies and Programs**

- 6.1 Industrial policy, foreign investment policy in mining including petroleum and mineral based industry.
- 6.2 Strategy for promotion and development of mining and construction material including petroleum and mineral based industry.
- 6.3 Infrastructure development strategy to enhance development of mineral industry.
- 6.4 Royalty, taxation policy of the Government in mining including petroleum exploration and development of the country.

---The End---