

लोक सेवा आयोग
नेपाल इञ्जिनियरिङ्ग सेवा, माइनिङ्ग इञ्जिनियरिङ्ग समूह, राजपत्राङ्कित तृतीय श्रेणीको खुला र आन्तरिक
प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

द्वितीय पत्र : माइनिङ्ग इञ्जिनियरिङ्ग

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| 1. | Mineral Exploration and Mine Development Technique | 20 % |
| | 1.1 Mineral Exploration and exploration techniques | |
| | 1.2 Surveying Methods and instruments | |
| | 1.3 Mine Development steps and the choice: surface and underground mine development | |
| | 1.4 Mine development machineries | |
| 2. | Mineral Production Technique | 20 % |
| | 2.1 Open cast and Underground mining methods | |
| | 2.2 Drilling and blasting in the mine operation | |
| | 2.3 Types of mining machineries | |
| | 2.4 Haulage system in mines | |
| 3. | Mine Environment and Safety Engineering | 20 % |
| | 3.1 Mine Environment and ventilation systems | |
| | 3.2 Safety Management | |
| | 3.3 Mine Hazards and Rescue Operations | |
| | 3.4 Miner's disease | |
| | 3.5 Safety engineering concept with respect to rock engineering | |
| | 3.6 Safety practice in mine development and production operation | |
| | 3.7 Environment Management Plan | |
| 4. | Mineral Resources Promotion and Administration | 20 % |
| | 4.1 General geology of Nepal | |
| | 4.2 Mine Economics concepts and tools | |
| | 4.3 Potential Mineral Resources and current status of Mining Industry in Nepal | |
| | 4.4 Role of Department of Mines and Geology (DMG) for mineral promotion and administration. | |
| 5. | ऐन, नियमहरु | 20 % |
| | 5.1 निजामती सेवा ऐन, २०४९ | |
| | 5.2 निजामती सेवा नियमावली, २०५० | |
| | 5.3 खानी तथा खनिज पर्दाथ ऐन, २०४२ | |
| | 5.4 खानी तथा खनिज पर्दाथ नियमावली, २०५६ | |
| | 5.5 वातावरण संरक्षण ऐन, २०५३ | |
| | 5.6 वातावरण संरक्षण नियमावली, २०५४ | |
| | 5.7 Historical background of Mining Laws in Nepal. | |

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विषयगत नमूना प्रश्नहरू (Sample Questions)

- 1 Mention the major deciding parameters to be considered in exploration of limestone resource.
- 2 Define the surveying procedures to conduct topographic survey of a prospect area.
- 3 Select and specify mine machinery and equipment required for a typical new opencast limestone quarry for a 400 tpd capacity cement plant.
- 4 Mention the mining method in opencast mining to produce 200 tpd limestone. Assume your own mining and geological parameters.
- 5 State briefly socio-economical impact due to mining industry and its rehabilitation program.
- 6 Write down the major mine hazards in an Underground coal mines.
- 7 Explain the contribution of mineral sector to a national economy.
- 8 Describe the general geology of Nepal.
- 9 निजामति सेवा ऐन, २०४९ अनुसार दण्ड र सजायको व्यवस्था बारेमा के थाहा छ, छोटकरीमा उल्लेख गर्नुहोस् ।
- 10 खानी तथा खनिज पदार्थ नियमावली, २०५६ ले खनिज पदार्थको वर्गीकरण र स्तर कसरी गरेको छ, उल्लेख गर्नुहोस् ।