

लोक सेवा आयोग

नेपाल इन्जिनियरिङ्ग सेवा, मेकानिकल समूह, जनरल मेकानिकल उपसमूह, रा.प.द्वितीय श्रेणीको
(खुला प्रतियोगिता र आन्तरिक प्रतियोगिता) लिखित परीक्षाको पाठ्यक्रम

द्वितीय पत्र सेवा सम्बन्धी प्राविधिक विषय

पूर्णाङ्क:- १००

1 **Basic Concept**

- 1.1 External financing and donor funding policy, Procurement guidelines for World Bank & Asian Development Bank (WB & ADB)
- 1.2 Budget planning and allocation of resources

2 **Manufacturing Technology**

- 2.1 Metal cutting operations
- 2.2 Casting, metal forming and mechanical joining processes
- 2.3 Welding and fabrication
- 2.4 Heat treatment of ferrous, Non-ferrous metals & their alloys
- 2.5 Corrosion and its prevention
- 2.6 Sheet metal work

3 **Engineering Materials**

- 3.1 Mechanical properties of materials (Metals & non-metals)
- 3.2 Ferrous and non-ferrous metals & their alloys
- 3.3 White metals and their alloys
- 3.4 Refractory metals and alloys
- 3.5 Tribology-friction, wear, bearing & lubricants fuel

4 **Instrumentation and Measurement**

- 4.1 Errors in measurements
- 4.2 Methods of measurement (Linear, angular)
- 4.3 Alignments tests
- 4.4 Calibration of measuring instruments

5 **Hydraulic & Electrical machines**

- 4.1 Water Turbines
- 4.2 Electric Motors
- 4.3 Generator

6 **Heat Engines**

- 6.1 Internal combustion engines
 - SI Engines
 - CI Engines
 - Boiler, properties of steam
 - Steam turbine

7 **Industrial Engineering and Management**

- 7.1 Inventory management
- 7.2 Total quality management
- 7.3 Project management
- 7.4 Maintenance of equipment & machines

8 **Environment Pollution Control**

- 8.1 Pollution Standards
 - 8.2 Preventive measures and pollution control
 - 8.3 Initial environmental Examination
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