

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

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**
 - 5.1 Water Turbines
 - 5.2 Electric Motors
 - 5.3 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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