

लोक सेवा आयोग
नेपाल इन्जिनियरिङ्ग सेवा, मेटालर्जिकल इन्जिनियरिङ्ग समूहको राजपत्रांकित द्वितीय श्रेणी
(खुला र आन्तरिक प्रतियोगिता) को लिखित परीक्षाको पाठ्यक्रम

द्वितीय पत्र :- समूह सम्बन्धी

1. General overview of mineral resources of Nepal.
2. Scope of Metallurgical Engineer in developing countries, like Nepal.
3. Scope of ferrous and non-ferrous metallurgical industries in Nepal.
4. Principles and processes of ore dressing with reference to few common commercial metals.
5. Iron carbon diagram, principles and types of heat treatment processes.
6. Common tests, destructive as well as non-destructive of metallurgical products for quality control.
7. Principles and processes of steel making from Iron ores.
8. Effects of common alloying elements in steel making and principles and process outlines for qualitative and quantitative determination of these elements in steel.
9. Role of metallography in steel quality control.
10. Types and significance of non-destructive testing (NDT).
11. Principles, processes and significance of pyrometallurgy, hydrometallurgy and electrometallurgy.
12. Quality management system as applies to metallurgical industries.
13. Tools, techniques, method and processes to ensure environmental soundness of metallurgical industries.
14. Importance of metallurgical lab for metal industry.
15. Role of formerly industry in developing countries like Nepal.
16. Steps involves in costing process, costing defects, reasons and remedies.
17. Principle, processes and significance, application of powder Metallurgy.
18. Principle, process and application of metal coating.
19. Importance of rolling mills and some rolled products, like CTDB and TMT.