

लोक सेवा आयोग
नेपाल आयल निगम लिमिटेड, प्राविधिक, इन्जिनियरिङ्ग, मेकानिकल, छैठौँ, सहायक प्रबन्धक
(मेकानिकल) पदको खुला प्रतियोगितात्मक लिखित परीक्षा
२०७९/१०/२२

पत्र : द्वितीय
समय : ३ घण्टा

पूर्णाङ्क : १००

विषय: सेवा सम्बन्धी

प्रत्येक Section को उत्तर छुट्टाछुट्टै उत्तरपुस्तिकामा लेख्नुपर्नेछ । अन्यथा उत्तरपुस्तिका रद्द हुनेछ ।

Section : "A"

50 Marks

1. What is heat exchanger? How are heat exchangers classified? Explain recuperator heat exchanger and its kinds with a schematic figure. 1+3+6=10
2. Define properties of fluid and explain method of flow measurement by using ultrasonic flow meter. 5+5=10
3. Discuss properties of engineering materials with special emphasis on mechanical properties of steels. 10
4. List the Project Evaluation Techniques. Explain any two of them in detail. Mention two differences between IRR and EIRR. 3+5+2=10
5. Define PERT, CPM, Inventory control and Statistical process control. 4x2.5=10

Section : "B"

50 Marks

6. When is water said to be polluted? What are the causes of water pollution and its consequences on living beings? Distinguish between point source and non point source of water pollution. 2+2+2+4=10
7. List down the basic safety rules in a workplace. Name the items (devices) of Personal Protective Equipment. Explain the importance of such any three items in detail in petroleum product handling. 10
8. Define oxidation. Mention the types of oxidation with their basic characteristics. 10
9. What is phase equilibrium? Draw and explain equilibrium curves to show difficulties and ease in separations of two compositions. 2+8=10
10. Describe Public Procurement Practices for works, goods and services and its importance in detail as per the latest revision of PPA/PPR. 10

- The End -