

लोक सेवा आयोग
नेपाल नागरिक उड्डयन प्राधिकरण, प्राविधिक, ई. एण्ड टे. कम. इन्जिनियरिङ्ग, आठौं, उपप्रबन्धक
पदको आन्तरिक प्रतियोगितात्मक लिखित परीक्षा
२०८०।०९।२२

दिनांक : २०८०।०९।२२
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 a Frame Relay? Explain Packet format, DLCI assignment and Congestion avoidance scheme in Frame Relay networks. 10
2. What is WLL? Differentiate between T1 and E1 systems used for TDM system. Explain about the ISDN architecture in detail with an example. 2+3+5=10
3. List the names of different modulation and multiplexing techniques that are popular in civil aviation. Discuss the different isolation and surge protection systems and lightning protection systems used in civil aviation. 2+2+3+3=10
4. Mobile end-points present a challenge for any connection-based application on an IP network. Using an example, discuss how this challenge might be resolved without a complete reworking of the end-system application. Discuss on "ISDN services and voice communication over analog networks". 10+10=20

Section "B"

50 Marks

5. Discuss the principles, functional block diagram and basic specifications of ILS. 10
6. Write note on the Performance Based Navigation (PBN) plan of Nepal. Discuss the ICAO fundamentals of Global and Asia-Pacific air navigation plans. Why are these navigation plans very important and how does it help Nepali airlines? Explain. 10
7. Discuss the key components of automation in advanced navigation systems. 10
8. If you are asked to prepare a composite map of a SSR and a weather radar data to enhance en route aircraft surveillance, explain how you will prepare their system synergies. 20

- The End -