

लोक सेवा आयोग
नेपाल नागरिक उड्डयन प्राधिकरण, प्राविधिक, ई. एण्ड टेकम., नवौ, प्रबन्धक पदको अन्तरिम
प्रतियोगितात्मक लिखित परीक्षा
२०८०।०९।१७

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. Describe the term footprint and look angles in the context of satellite communication. What are the characteristics of Geo Stationary Orbit Satellite? Explain. 4+6=10
2. Sketch 2 Mb/s PCM frame and explain how frame alignment is achieved. 10
3. Why is it necessary to have surge protection system in power supply? Explain UPS with block diagram. 6+4=10
4. Civil Aviation Authority of Nepal is planning to setup New Aviation Ground System in remote part of Nepal, where electricity is not reliable and has high risk of lightning. Design a power supply system including Nepal Electricity Authority power and backup power system keeping in mind to isolate signal ground and electrical ground. Explain key features of proposed power supply system and protection system. 20

Section "B"

50 Marks

5. Describe basics of performance based navigation system (PBN) and its status of implementation in Nepal. 10
6. Sketch the structure of ICAO. What role does ICAO play in the civil aviation sector? Explain. 5+5=10
7. What are the roles ITU for spectrum management? Describe key features of Tribhuvan International Airport and Pokhara International Airport as per ICAO. 5+5=10
8. Describe on strategies and polices to be revised and implemented to make excellent Air Navigation Services all over Nepal as per ICAO standards considering Human centered technology, Equipment authorization and approval process, Procurement of equipment and Quality control and assurance. 5+5+5+5=20

- The End -