

लोक सेवा आयोग  
नेपाल नागरिक उड्डयन प्राधिकरण, प्राविधिक, ई. एण्ड टे. कम. इन्जिनियरिङ्ग, नवौ, प्रबन्धक पदको  
खुला प्रतियोगितात्मक लिखित परीक्षा  
२०७९।०४।२९

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. Mention the difference between National Standard Bidding Document and International Standard Bidding Document. Why are such differences necessary in case of Nepal? What are the main points needed while resolving contract disputes? 3+2+5=10
2. Explain the operating principles of WiFi and ADSL digital networks. 5+5=10
3. Consider the telecommunication and data networks used in Nepal at present. In this context, identify and classify the technologies and systems into wireline/guided and wireless/unguided. Compare them. Which systems are used in CAAN? 4+4+2=10
4. Develop a cyber security model for international airport to monitor, authorize and resolve cyber threat within limited time. 20

**Section "B"**

**50 Marks**

5. What are the differences between PDH and SDH transmission systems? Explain in detail. 5+5=10
6. How does a lightening protection system work? Write down its importance in aviation communication system. 5+5=10
7. Write down the equation of FM signal modulated by a low frequency harmonic signal. Explain any one method of generating WBFM. 4+6=10
8. If the navigation system and surveillance system both are non-functional for at least four hours due to technical failure, how can you manage the overall operation of a busy airport to reduce all types of chaos? As a responsible administrator, develop your plan in detail. 20

- The End -