

लोक सेवा आयोग
नेपाल नागरिक उड्डयन प्राधिकरण, प्राविधिक, सिभिल इन्जिनियरिङ्ग, पाँचौ, वरिष्ठ सहायक पदको
खुला प्रतियोगितात्मक लिखित परीक्षा
२०८०/१०/०४

पत्र : द्वितीय
समय : २ घण्टा ३० मिनेट

पूर्णाङ्क : १००

विषय : सेवा सम्बन्धी

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

Section "A"

50 Marks

1. Briefly describe the history of civil aviation in Nepal. List out international airports constructed and under planning consideration in Nepal. 3+2=5
2. What is airport pavement? Compare the basic design concept for flexible and rigid airport pavements. 1+4=5
3. What is airport drainage system? Write down its functions. What type of data will you collect for its design? 1+2+2=5
4. What are the additional requirements for a Domestic Airport Terminal to be upgraded to an International Airport? Describe. 5
5. When do you use trigonometric levelling? What are its limitations? Describe. 3+2=5
6. What is the purpose of Runway Threshold? How do you mark it and what are the standard dimensions of the markings? 2+3=5
7. What are the factors to be considered for the airport site selection? Why rose diagram is importance for runway orientation? Explain. 5+5=10
8. What does ICAO stand for? Enlist the geometric design standards for the airport design as per ICAO. As per ICAO, write the class of Tribhuvan International Airport and elaborate it. 5+5=10

Section "B"

50 Marks

9. Mention the markings in the airport pavement. What do the letters 'L', 'R' and 'C' indicate in marking? 3+2=5
10. Draw a Mass Haul Curve. What is free haul distance in Mass Haul Curve? What information do we get from it? 1+1+3=5
11. Describe water cement ratio. Mention factors affecting strength of concrete. Why is curing done? 1+3+1=5
12. What is a Tender Notice? How long is its period for National Competitive Bidding in Nepal? Mention the amount of bid security and performance bond in Nepal. 2+1+2=5
13. Describe different types of foundations for civil engineering structures along with their suitability in soil types. 5
14. Describe the properties of cement to be used for airport construction. Also, mention the need for using admixtures. 4+1=5
15. What do you mean by rate analysis and how is it prepared? What are the norms for M20 concrete? 5+5=10
16. What are the responsibilities of civil overseer in Civil Aviation Authority of Nepal? Briefly explain the relation among employer, contractor and consultant in construction works. 5+5=10

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