

लोक सेवा आयोग
नेपाल नागरिक उड्डयन प्राधिकरण, प्राविधिक, सिभिल इन्जिनियरिङ्ग, सातौं, वरिष्ठ अधिकृत पदको
खुला प्रतियोगितात्मक लिखित परीक्षा
२०८०।१०।१८

पूर्णाङ्क : १००

विषय : सेवा सम्बन्धी

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

Section "A"

50 Marks

1. What are the major steps in site evaluation and selection process for the STOL Airport as per ICAO norms? Describe. 5
2. Discuss the role of air traffic control towers in airport operations. 5
3. What is the use of Terminal area? What are the facilities to be provided in Terminal buildings? Describe in brief the 'Centralized' and 'Decentralized' concept of Terminal building planning. 2+3+5=10
4. What are the physical characteristics of STOL port? How do you judge the relevancy of STOL ports in Nepal? And, list out the different elements of airport lighting. Describe taxiway lighting in brief. 3+2+3+2=10
5. Describe the step-by-step process that is used for the planning of airports in Nepal. As per the recently published information, it is found that about one-third of the airports in Nepal are non-operational. Examine critically the causes of inconsistencies in the planning process and suggest improvement measures for the planning of the airports to be taken in the future. 10
6. Explain Rigid and Flexible Pavements and give reasons which is better for plains of Nepal. 10

Section "B"

50 Marks

7. Describe the various types of drainage structures that are used on airports. 5
8. What is the purpose of airport maintenance? Explain the typical failures in flexible airport pavement. 1+4=5
9. Explain the earth pressures of surcharge on a counterfort retaining wall with sketches. 10
10. Discuss the advantages and limitations of instruments such as total stations, GPS and levels. Also, explain how each is applied in different survey scenarios. 5+5=10
11. Describe the challenges faced during the administration of construction contracts of airports. Examine critically the issues of time overrun, cost overrun and quality control in the Nepali context. 4+6=10
12. Describe the importance of economic analysis of airport projects and various methods employed for the economic analysis. The construction of two international airports at Bhairahawa and Pokhara was recently completed. Although implemented after rigorous economic analysis what might be the reason for these airports not being function yet? Critically analyze the problem with suggestions. 10