

लोक सेवा आयोग  
नेपाल नागरिक उड्डयन प्राधिकरण, प्राविधिक, एयरवर्दिनेश, नवौ, प्रबन्धक पदको खुला प्रतियोगितात्मक  
लिखित परीक्षा  
२०८०/०९/१८

क्रम : 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 hydraulic pressure generation systems using electrical, mechanical and pneumatic methods. 10
2. Describe various types of operational control items/surfaces for aircraft stability during flight. 10
3. Describe the air conditioning and pressurizing system in aircraft. How is the aircraft cabin pressurization controlled? Explain. 5+5=10
4. Explain about AC and DC electrical power generation systems used in Modern Aircraft. 10+10=20

**Section "B"**

**50 Marks**

5. Describe Non-destructive Inspection techniques used in aircraft and engine maintenance. 10
6. Explain different types of errors as defined by James Reason. 10
7. Write short notes on: 5+5=10
  - a) Airworthiness Directives (AD)
  - b) Safety Risk Analysis
8. Explain why human factor is important in aviation maintenance. Describe the dirty dozens that affect the work in maintenance and how they can be mitigated. 20

- The End -