

नेपाल नागरिक उड्डयन प्राधिकरण
प्राविधिक सेवा, ईलेक्ट्रिकल इन्जिनियरिङ्ग समूह, सातौं तह, बरिष्ठ अधिकृत पदको
नमूना प्रश्नपत्र

पत्र : द्वितीय
समय : ३ घण्टा

विषय : सेवा सम्बन्धी

पूर्णाङ्क १००

Section 'A'

1. What are the pre-requisites for satisfactory parallel operation of two transformer State? 5
2. Compare the advantages and disadvantages of a series electrical circuit with respect to parallel circuit. 5
3. What are the methods of power factor improvement? What are the advantages of it to consumer and to utility? Explain. 10
4. What is Ferranti effect ? Explain with the help of phasor diagram. 10
5. Mention the different types of bus bar schemes in a substation. Which type of bus bar scheme is most reliable? State. 10
6. Explain with a neat diagram open circuit and short circuit tests of a transformer. Give reasons what informations you gather from these two tests. 10

Section 'B'

7. What is the gating characteristic of a GTO? State. 5
8. If current is the cause for electric shock, not voltage, then why do alarming "high voltage" signs exist? Explain. 5
9. Explain the physical effect of electric shock on human body. Describe about touch potential and step potential. 10
10. Explain signaling lamp, signal panels, signal area and taxiway centre line marking with their proper significance and representation. 10
11. Briefly discuss the investment decision criteria for the assessing of the viability of a project. 10
12. Point out the major issues cited in procurement guidelines of ADB 10

– THE END –