

लोक सेवा आयोग
नेपाल विद्युत प्राधिकरण, प्राविधिक, सिभिल, सिभिल, सातौ, इन्जिनियर पदको खुला प्रतियोगितात्मक
लिखित परीक्षा
२०८०/०९/१६

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. What is the flow duration curve and its significance? What factors influence the flow duration curve and how do you calculate the flow duration curve? 3+3+4=10
2. What are the considerations to be made in selecting the type of dam and the site where it is to be constructed? 5+5=10
3. How does the specific speed differ from the real speed of a turbine? Write the basic working principles of a Francis turbine used in a hydropower plant. 5+5=10
4. Answer the followings: 5+5=10
 - a) Describe merits and demerits of run-off river and storage hydropower schemes in the context of Nepal.
 - b) Describe why storage hydropower plants are less popular in Nepal.
5. What is the concept of integrated water resource management? Why is it needed in the context of Nepal? Explain. 5+5=10

Section : "B"

50 Marks

6. Describe total station equipments. What are the uses and importance of total station equipments? 4+6=10
7. What are the factors which affect the physical properties of steel? Briefly discuss the various forms of steel available in the market for construction purposes? 3+7=10
8. Describe a concept of pre-stressed reinforced concrete structures. What are the merits and demerits of pre-stressed reinforced concrete structures? 5+5=10
9. Describe the purpose, types and importance of specification. 2+4+4=10
10. Write short notes on: 5+5=10
 - a) Drawing Scales
 - b) Orthographic Projection

- The End -