

लोक सेवा आयोग
नेपाल टेलिकम, प्राविधिक, सातौं, टेलिकम ईन्जिनियर (इले. एण्ड कम्प्युनिकेशन) पदको
प्रतियोगितात्मक लिखित परीक्षा
२०७५/०५/२३

पत्र : द्वितीय
समय : २ घण्टा

विषय : **Specialized Subject**

पूर्णाङ्क : १००

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

Subjective

Time : 1 Hour 35 Minutes

Section 'A': Short Answer

40 Marks

1. Describe about operational Amplifier and its characteristics. 4
2. What are main types of antenna polarization? Explain about VSWR. 2+2=4
3. What are different types of Control Systems? Explain. 4
4. What is sinc function and delta function? State. 2+2=4
5. Summarize the important advantages of PCM. 4
6. What is continuous wave modulation and why is it often used in transmission systems? 4
7. List the most important internet access technologies. 4
8. Compare the various types of Optical Switches. 4
9. Describe role of earth station and transponder in Digital Satellite Communication system. 4
10. What are the main advantages of cellular systems compared to old generation radio telephone systems? 4

Section 'B': Long Answer

30 Marks

11. Describe the types of computer memory. Compare in detail: RAM vs DRAM, PROM vs EPROM. 10
12. With a block diagram explain the working of coherent binary FSK transmitter and receiver. 10
13. What is Next Generation Network? What are its features? State. 10