

लोक सेवा आयोग

औद्योगिक क्षेत्र व्यवस्थापन लिमिटेड, प्राविधिक, सिभिल, इञ्जिनियरिङ, पाँचौं, सव इञ्जिनियरपदको
प्रतियोगितात्मक लिखित परिक्षा

पत्र: द्वितीय

SET-2

पूणाङ्क: १००

समय: २ घण्टा ३० मिनेट

विषय: सेवा सम्बन्धी

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

Section 'A'

1. Differentiate between elevation, section and plan in relation to drawings of a building. [5]
2. What is meant by bearing capacity of soil? What are the main factors for the foundation settlement? [5]
3. Define strain. How is factor of safety related with ultimate strength and working strain of material? [2+3=5]
4. Explain the types of loads on RCC structures that are applied while designing as per standard code. [5]
5. Why are the specifications of construction materials, goods and works made? Highlight its significance. [5]
6. List the standard contractual provisions that are included for the agreement of the contract of work. [5]
7. What are the types of foundation? Briefly describe about each types of foundation. [10]
8. Briefly explain the types of beam. What is over-reinforced section of RCC? [5+5=10]

Section 'B'

9. What are the principles of surveying? Write down the use of counter map in engineering study. [2+3=5]
10. Why is drainage system important for the sustainability of road? Explain with the types of drainage that is being commonly used in our context. [5]
11. What are the factors affecting the size of reservoir tank for water supply? [5]
12. What is the difference between on-site and off-site sanitation? [5]
13. Briefly describe different methods of leveling. Write down the importance of L-section and cross-section while designing a road section. [4+6=10]
14. What are types of pavement? How do you prepare sub-base and base course for highway construction? [3+7=10]
15. What are the factors affecting the water demand in water supply system? Briefly describe the suitability of different types of pipes in water supply system. [3+7=10]