Seat No.

Total No. of Pages : 2

OCT-NOV 2025 WINTER EXAMINATION

11731 Bachelor of Technology (NEP-2.0)

Sub. Name: Basic Civil Engineering

Sub. Code: 108718

Day and Date: Thursday ,29-01-2026 **Total Marks: 60**

Time: 10:30 AM To 01:00 PM

Instructions:
1. **All questions are compulsory**
2. **Assume suitable data wherever necessary and mention it boldly**
3. **Draw neat labelled diagrams wherever necessary**
4. **Figures to the right indicate full marks**

Q1) Solve any three Questions **[15]**

a. Explain the scope of Civil Engineering **[5]**

b. Differentiate between Substructure and Superstructure? **[5]**

c. State the various principles of planning and explain any one with sketches. **[5]**

d. **[5]**

Convert the QB's to WCB

1. QB of AB = S 30^0 15'W
2. QB of BC = S 41^0 30' E
3. QB of CD = N $29^0$15' E
4. QB of DE = N 50^0 30' W
5. QB of EF = S 10^0 15' E

Q2) Solve any three **[15]**

a. Write a note on septic tank. **[5]**

b. What is the need of sewage treatment plant ? **[5]**

c. Explain with sketches four main layouts of water distribution systems **[5]**

d. Explain the different sources of water in detail. **[5]**

Q3) Solve any three **[15]**

a. Define transportation engineering and explain different modes of transportation. **[5]**

b. Distinguish between rigid pavement and flexible pavement. **[5]**

c. Draw a typical cross section of road in cutting and embankment showing details. **[5]**

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d. What are the requirements of the ideal permanent way? **[5]**

Q4) Solve any three **[15]**

a. Draw a typical layout of dam and explain components. **[5]**

b. What is Irrigation? What are the types of irrigation system , explain anyone **[5]**

c. State Importance of rainwater harvesting **[5]**

d. Write a note in watershed management **[5]**

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -
This Question Paper may be distributed for following Subjects as common code.
सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

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