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Roll No. ....

**TCE-101**

**B. TECH. (FIRST SEMESTER)**

**MID SEMESTER**

**EXAMINATION, Nov., 2022**

**BASICS OF CIVIL ENGINEERING**

**Time : 1½ Hours**

**Maximum Marks : 50**

**Note : (i)** Answer all the questions by choosing any **one** of the sub-questions.

**(ii)** Each sub-question carries 10 marks.

1. (a) Discuss the role of Civil Engineers in the development of the nation. (CO1)

**OR**

(b) What are the branches and functions of Civil Engineering ? (CO1)

**P. T. O.**

(2)

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2. (a) Define the following terms : (CO1)

(i) Ropeways

(ii) Silos

(iii) Retaining Walls

(iv) Dams

OR

(b) Discuss about the impact of infrastructural development on the economy of a country.

(CO1)

3. (a) Define Surveying. Explain the principle of surveying. (CO2)

OR

(b) Convert the following bearings : (CO2)

(i) WCB of AB =  $222^{\circ}15'$

(ii) QB of BC =  $S 42^{\circ}15' E$

(iii) QB of CD =  $N 42^{\circ}15' E$

(iv) WCB of DE =  $121^{\circ}43'$

4. (a) Write short notes on the following : (CO2)

(i) Remote Sensing

(ii) Geographical Information System

(3)

OR

(b) List and define the various instruments used for angular measurements. (CO2)

5. (a) Explain how Civil Engineering has evolved over time. (CO1 & CO2)

OR

(b) List the various modern tools of surveying and mapping. Explain any *one* of them.

(CO1 & CO2)

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