

**H**

**Roll No. ....**

## **TCE-101**

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

**MID SEMESTER**

**EXAMINATION, Jan., 2023**

**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) What are the various civil engineering activities in Infrastructure development ?  
Also given the importance of Civil Engineering. (CO1)

OR

- (b) Briefly give scope of Disciplines of Civil Engineering. (CO1)

*P. T. O.*

(2)

TCE-101

2. (a) What do you understand by Linear measurement ? Also write down the methods used in linear measurement.

(CO2)

OR

- (b) Write short notes on the following : (CO2)

(i) Total Station

(ii) Lidar

3. (a) What is Civil Engineering ? Explain the various scopes for a career in Civil Engineering. (CO1)

OR

- (b) Write short notes on any *five* Civil Engineering marvels in India. (CO1)

4. (a) Write a note on GPS and give its uses.

(CO2)

OR

- (b) How does Compass Surveying differ from Chain Surveying ? (CO2)

5. (a) What is Compass surveying ? Also write down the difference between Prismatic and Surveyor compass. (CO2)

(3)

OR

- (b) Convert the following Bearings : (CO2)

(i)  $122^{\circ} 25'$

(ii)  $218^{\circ} 24'$

(iii) S  $21^{\circ} 25'$  W

(iv) N  $21^{\circ} 70'$  W

(v)  $170^{\circ}$

TCE-101

150