

H

Roll No.

TCE-101

B. TECH. (FIRST SEMESTER)

MID SEMESTER

EXAMINATION, Oct., 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 give 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 scope 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)

(3)

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

(CO2)

OR

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

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

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

(iii) $S21^{\circ}25'W$

(iv) $N21^{\circ}70'W$

(v) 170°