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Roll No.

TCE-201

B. TECH. (SECOND SEMESTER)

MID SEMESTER

EXAMINATION, March, 2024

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 is Civil Engineering ? Explain the various scope for a career in Civil Engineering. (CO1)

OR

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

P. T. O.

(2)

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

(CO2)

OR

- (b) Write a short note on the following :

(CO2)

(i) Total Station

(ii) Lidar

3. (a) What are the various civil engineering activities in Infrastructure development ? Also give the importance of 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) The distance between two stations was 1300 m when measured with a 20 m chain.

(3)

The same distance when measured with 30 m chain was found to be 1190 m. If the 20 m chain was 0.05 m too long, what was the error in the 30 m chain ? (CO2)

5. (a) The magnetic bearing of a Line AB was N $59^{\circ} 30'$ W in the year 1965, when the declination was $4^{\circ} 10'$ W. If the present declination is 3° E, then the W. C. B of the line is

(CO2)

OR

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

(i) $122^{\circ} 25' 22''$

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

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

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

(v) 170°

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3,050

