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## TCE-201

## B. TECH. (SECOND SEMESTER) MID SEMESTER EXAMINATION, April, 2023

BASICS OF CIVIL ENGINEERING

Time: 11/2 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) Briefly give scope of different disciplines of civil engineering. (CO1)

OR OR

- (b) What is the impact of civil engineering on the economy? (CO1)
- 2. (a) Identify five best civil engineering projects with high aesthetic appeal with one possible factor for each. (CO1)

OR

(b) Explain the scope for a career in civil engineering. (CO1)

3. (a) Write about the different instruments used for linear measurement. (CO2)

OR

- (b) A rectangular plot was measured with a 20 m chain and its size was established as 450 × 250 m. Later, it was found that the chain used for measuring the sides of plot was 15 cm too long. What is the true area of the plot?. (CO2)
- 4. (a) Write short notes on the following: (CO2)
  - (i) GPS
  - (ii) Lidar
  - (iii) Total station

OR

(b) Convert the following QB into WCB:

(CO2)

- (i) N 15 <sup>0</sup> 35' E
- (ii) S 36<sup>0</sup> 37' E
- (iii) S 44<sup>0</sup> 43' W
- (iv) N 24<sup>0</sup> 56' W
- (v)  $S 4^0 15' E$

5. (a) Differentiate between prismatic compass and surveyor's compass. (CO2)

OR

(b) The magnetic bearing of a line AB is 110°43′. If magnetic declination is 10° 5′ E, then what is the true bearing of the line AB? If declination in the above question is 15°7′ W with the same magnetic bearing, then what is the true bearing?

(CO2)