

End Semester Examination 2024

Name of the Program: B. TECH (1st Year)

Semester: II

Name of the Course: Basics of Civil Engineering

Course Code: TCE - 201

Time: 3 Hours

Maximum Marks: 100

Note:

- (i) All Questions are compulsory.
- (ii) Answer any two sub questions among a, b and c in each main question.
- (iii) Total marks in each main question are twenty.
- (iv) Each question carries 10 marks

Q1	(10 x 2 = 20 marks)	CO1
(a)	What are the various civil engineering activities in Infrastructure development? Also give the importance of Civil Engineering.	
(b)	What is Civil Engineering? Explain the various scope for a career in Civil Engineering.	
(c)	Briefly give scope of Disciplines of Civil Engineering.	
Q2	(10 x 2 = 20 marks)	CO2
(a)	The Distance between two stations was 1300 m when measured with a 20 m chain. 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?	
(b)	The Magnetic Bearing of a Line AB was N 59° 30' W in the year 1965, When the declination was 4°10' W. If the present declination is 3°E, then the W.C.B of the line is.	
(c)	Convert the following Bearings: 1. 125° 25' 25" 2. 220° 24' 3. S 27° 25' W 4. N 22° 80' W 5. 54° 50' 22"	
Q3	(10 x 2 = 20 marks)	CO3
(a)	What are the requirements and properties of good building stones?	
(b)	What is Concrete? Briefly write on desirable properties and uses of concrete.	
(c)	Explain the use of following Building Materials: 1. Wood 2. Glass	
Q4	(10 x 2 = 20 marks)	CO4
(a)	What are the types of drawings?	
(b)	What are building Bye – Laws? Give the objectives of bye – laws.	

(c)	Explain the various principles of planning of residential and public buildings.
Q5	(10 x 2 = 20 marks)
(a)	What are traffic signs. What are the functions and importance of traffic signs?
(b)	Explain the methods of treatment of raw water.
(c)	Define Air Pollution, Control of Air Pollution & Effects of Air Pollution.

CO5