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TCE-201

B. TECH. (SECOND SEMESTER) END SEMESTER EXAMINATION, June, 2023

(For Physics Group Only)
BASICS OF CIVIL ENGINEERING

Time: Three 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 sub-question carries 10 marks.
- 1. (a) Write down short notes on the following: (CO1)
 - (i) Towers
 - (ii) Silos
 - (iii) Naval Structures
 - (iv) Inland Waterways
 - (v) Cable/Rope ways

- (b) What is Civil Engineering? Explain any five broad disciplines in civil engineering with suitable examples. (CO1)
- (c) What is the impact of Civil Engineering in the economy of a nation? (CO1)
- 2. (a) Convert the following bearings: (CO2)
 - (i) 135° 56'
 - (ii) 270° 24′
 - (iii) S 90° W
 - (iv) N 33° 54' W
 - (v) 270°
 - (b) What does GIS stand for ? What are major components of GIS ? (CO2)
 - (c) What does GPS stand for ? Write down its application in modern world. (CO2)
- 3. (a) What is R. C. C. ? Briefly write on desirable properties and uses of concrete.

(CO3)

- (b) What are the requirements of a good building stones? (CO3)
- (c) Write short notes on the following: (CO3)
 - (i) PSC

- (ii) Green Concrete
- (iii) Structural Steel
- (iv) Thermosetting plastics
- 4. (a) What are building Bye-laws? Give the objectives of bye-laws. (CO4)
 - (b) What are the various principles of planning of a residential and public building? (CO4)
 - (c) Briefly explain the different types of intelligent transport system to be installed for road safety. (CO4)
- 5. (a) Explain the processes involved in treatment of wastewater. (CO5)
 - (b) Define noise pollution. What are the different measures to be taken for its control? (CO5)
 - (c) What is the importance and functions of the Traffic signs? Draw and explain any five. (CO5)