

Reg. No. : E N G G T R E E . C O M

Question Paper Code : 85016

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2025

First Semester

Civil Engineering

CE25C01 — INTRODUCTION TO CIVIL ENGINEERING

(Common to : Civil Engineering (Environmental Engineering)/Environmental Engineering/Environmental Science and Technology/Geoinformatics Engineering/Agricultural Engineering)

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(Regulations 2025)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. **Name any four important responsibilities of civil engineers to contribute to the society.**
2. **What are the scope of civil engineering in future?**
3. **Mention the primary forces that affect a buildings stability.**
4. **What are different materials used to construct different parts of a structure?**
5. **List out the advantages of using steel in building construction.**
6. **How does gypsum contribute to building safety and comfort?**
7. **Define allowable bearing pressure in building foundation.**
8. **What is the function of National Building code of India?**
9. **How do you maintain the rainwater tank remains fresh?**
10. **Mention the various types of dams.**

PART B — (5 × 13 = 65 marks)

11. (a) How do you prioritize public safety while you feel unsafe design in Civil Engineering constructions?

Or

(b) What are the specific project boundaries and deliverables? Explain.

12. Explain any three safest construction techniques for a specific project

Or

(b) How does soil type affect the design of a foundation? Explain in detail.

13. (a) Explain various functions of components of precast concrete and cast in situ concrete.

Or

(b) Write the different types of Gypsum boards and mention their specific applications in the construction fields.

14. (a) Explain any four types of foundations with their advantages and disadvantages used in constructions.

Or

(b) Describe the various factors that affect Bearing capacity and settlement.

15. (a) What is the significance of Modernization of Rainwater Harvesting system?

Or

(b) Explain the environmental impact of improper waste disposal to the society.

PART C — (1 × 15 = 15 marks)

16. (a) Explain the grading system of wood in terms of quality factors.

Or

(b) Design the green and sustainable building with respect to high recycled content or low embodied energy.