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Roll No. _____

Total No of Pages: 2

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B. Tech. I - Sem. (Main) Exam., Dec. - 2018

ESC

1FY3 – 09 Basic Civil Engineering

Time: 2 Hours

Maximum Marks: 80

Min. Passing Marks: 26

Instructions to Candidates:

Part – A: Short answer questions (up to 25 words) 5×2 marks = 10 marks. All five questions are compulsory.

Part – B: Analytical/Problem solving questions 4×10 marks = 40 marks. Candidates have to answer four questions out of six.

Part – C: Descriptive/Analytical/Problem Solving questions 2×15 marks = 30 marks. Candidates have to answer two questions out of three.

Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used /calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

1. NIL

2. NIL

PART - A

- Q.1 Define Civil Engineer? [2]
- Q.2 Differentiate between fore bearing and back bearing. [2]
- Q.3 Differentiate between floor area and carpet area. [2]
- Q.4 What is transportation and what are its needs? [2]
- Q.5 Define the term Biodiversity. [2]

PART – B

- Q.1 Discuss the role of a civil engineer in the society. [10]
- Q.2 Discuss various types of levelling instruments with their relative merits & demerits. [10]
- Q.3 Explain the term 'foundation'. Enumerate the various types of building foundation. [10]
- Q.4 Explain in detail various modes of transportation with their characteristics. [10]
- Q.5 List out various types of chain used in linear measurement and discuss in detail metric chains. [10]
- Q.6 What are the various types of solid wastes? Write a short note on solid waste management. [10]

PART – C

- Q.1 Define Air pollution. What are the various air pollutants? Write down the harmful effects of air pollution and its abatement. [15]
- Q.2 Explain various components of building along with their functions. [15]
- Q.3 What are the various causes of accidents? Discuss various road safety measure in detail. [15]

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