

<b>21509</b>	Roll No. _____	Total No of Pages: <b>3</b>
	<b>21509</b> <b>B. Tech. II Sem. (Main) / B. Tech. I Sem. (Back)</b> <b>Exam., May - 2019</b> <b>ESC</b> <b>2FY3-09 / 1FY3-09 Basic Civil Engineering</b>	

**Time: 2 Hours**

**Maximum Marks: 80**

**Instructions to Candidates:**

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

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

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

Schematic diagrams must be shown wherever necessary. Any data you feel missing 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 transportation and transportation engineering. [2]
- Q.2 Differentiate between surveying and levelling. [2]
- Q.3 State Hydrological cycle with neat sketch. [2]
- Q.4 What is a well-conditioned triangle? [2]
- Q.5 State the types of foundation. [2]

**PART - B**

- Q.1 Describe the components of building and their functions. [10]
- Q.2 Discuss an impact of infrastructural development on economy of country. [10]
- Q.3 Describe in detail various mode of transportation with their characteristics. [10]
- Q.4 Define levelling. Describe the various methods of levelling in brief. [10]
- Q.5 Enumerate the causes of accidents and road safety measures. [10]
- Q.6 Define the environment pollution. State an Environmental Act and Regulations. [10]

**PART - C**

- Q.1 Describe the various instruments used in angular measurement and state their merit and demerit. [15]

Q.2 Write notes on :

[15]

- (i) Water quality standard
- (ii) Global warming and greenhouse effect
- (iii) Types of building & building bye laws.

Q.3 Define noise pollution. What are the harmful effects of noise pollution? Write down the steps for control of noise pollution.

[15]

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