

1E2409	Roll No. _____	Total No of Pages: 3
	1E2409 B. Tech. II - Sem. (Main) Exam., May - 2019 ESC 2FY3 – 09 Basic Civil Engineering	

Time: 2 Hours

Maximum Marks: 80

Instructions to Candidates:

Attempt all five questions from Part A, four questions out of six questions from Part B and two questions out of three from Part C.

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

(Answer should be given up to 25 words only)

[5×2=10]

All questions are compulsory

~~Q.1~~ Differentiate between Plinth and Carpet area. [2]

~~Q.2~~ Write down the principles of Surveying. [2]

~~Q.3~~ Write down the instruments used for linear measurement. [2]

~~Q.4~~ List the type of foundation used in construction. [2]

~~Q.5~~ Define the term contour and contour maps. [2]

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PART – B

(Analytical/Problem solving questions)

[4×10=40]

Attempt any four questions

- Q.1 Define the role of Civil Engineer in society. [10]
- Q.2 Write down the various tape correction applied in linear measurement. [10]
- Q.3 Describe the various types of building and their purposes. [10]
- Q.4 Explain in detail various modes of transportation with their characteristics. [10]
- Q.5 Define air pollution and discuss about the various air pollutants. [10]
- Q.6 Explain in detail various cause of accidents and their preventing measures. [10]
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PART – C

(Descriptive/Analytical/Problem Solving/Design Questions)

[2×15=30]

Attempt any two questions

- Q.1 (a) Describe levelling and various types of instrument used for levelling. [5]
- (b) The following readings are taken from a level; 0.502, 1.335, 1.865, 2.555, 0.305, 0.910, 1.935, 2.875, 0.560, 1.825 and 2.775. Instrument is shifted after second, fourth and ninth reading. Compute the reduced level of all stations using rise and fall method. The first reading was taken on benchmark of 100m. [10]

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- Q.2 (a) What is noise? Describe briefly the effects of noise pollution. [10]
(b) Discuss the preventions for noise pollution. [5]
- Q.3 (a) Convert the following quadrantal bearings to whole circle bearing - [2]
(i) N 38° 28' E (ii) S 79° 10' W (iii) S 45° 47' E (iv) N 10° 11' W
(b) Differentiate between fore bearing and back bearing. [3]
(c) Which factors we need to consider while selecting a site for building? [10]
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