1E2409

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# 1E2409

## B. Tech. I/II - Sem. (Main / Back) Exam., March – 2021

## ESC

## 1FY1-09/2FY3-09 Basic Civil Engineering

**Time: 2 Hours** **[To be converted as per scheme]**

**Max. Marks: 65**

**Min. Marks: 23**

*Instructions to Candidates:*

***Attempt all five questions from Part A, four questions out of six questions from Part B and one 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 Explain the term plinth area and carpet area.

Q.2 Write about Greenhouse effect and Global warming.

Q.3 Brief about Longitude and Latitude.

Q.4 What are the objectives of levelling?

Q.5 Write about the Environmental Acts.

## PART – B

**(Analytical/Problem solving questions)** **[4×10=40]**

**Attempt any four questions**

Q.1 Write the method of layout of a building plan.

Q.2 Write the different quality standards for water in Tabular form.

Q.3 Explain the types and characteristics of various modes of transportation.

Q.4 How can we take measurement on a sloping ground? Which instrument is used for this measurement? How is it different from the measurement on plane ground?

Q.5 How can we treat and dispose the waste water?

Q.6 Draw the different traffic signs. What are the various safety measures during accidents?

## PART – C

**(Descriptive/Analytical/Problem Solving/Design Questions)** **[1×15=15]**

**Attempt any one questions**

Q.1 (a) How can we range out survey line? Write the procedure while obstruction will occur.

(b) Explain various tape corrections. [7]

Q.2 Classify various solid wastes. Describe its collection, transportation and disposal also. [8]

Q.3 Write short notes on the following – [15]



[5×3=15]

(a) Nitrogen Cycle & Phosphorus Cycle

(b) Contour Maps

(c) Environmental Pollution

(d) Recycling of Solid Waste

(e) Total Station