

2E3208

Roll No. _____

Total No. of Pages: **2****2E3208****B. Tech. II - Sem. (Main / Back) Exam., - 2023****2FY3 – 09 Basic Civil Engineering****Time: 3 Hours****Maximum Marks: 70***Instructions to Candidates:**Attempt all ten questions from Part A. All five questions from Part B and three questions out of five questions 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. NIL2. NIL**PART – A****[10×2=20]****(Answer should be given up to 25 words only)****All questions are compulsory**

- Q.1 Discuss about scope of civil engineering.
- Q.2 Define levelling and any one objects of levelling.
- Q.3 Discuss basic concept of R.C.C.
- Q.4 Write down the different units of measurement.
- Q.5 Discuss about various road traffic signs.
- Q.6 Explain in brief the functional concepts of ecology.
- Q.7 Discuss about classification of solid waste.
- Q.8 Discuss about greenhouse effects.
- Q.9 Explain about global warming & climate change.
- Q.10 Discuss about energy flow in eco-systems.

PART – B

[5×4=20]

(Analytical/Problem solving questions)

Attempt all five questions

- Q.1 Describe various modes of transportation.
- Q.2 Explain types of buildings and building byelaws.
- Q.3 Explain about rain water harvesting with a neat sketch.
- Q.4 Describe surveying tap corrections and conventional systems.
- Q.5 What are the various safety measures will you take during accidents in civil construction?

PART – C

[3×10=30]

(Descriptive/Analytical/Problem Solving/Design Questions)

Attempt any three questions

- Q.1 Explain the importance of a Civil Engineer in society, also explain ranging out survey lines.
- Q.2 Describe reuse and saving of water, also explain control of noise pollution and air pollution.
- Q.3 Explain various components of buildings along with their functions.
- Q.4 The following readings are taken from a level: 1.885, 2.770, 1.585, 1.985, 2.115, 1.660, 0.985, 1.110, 0.765, 0.885 and 1.005. Instrument is shifted once after sixth reading.
Enter the above reading in a level field book and compute the reduced level of all stations using height of instrument method. The first reading was taken when a staff was held at a bench mark of 101.500 meter.
- Q.5 Write short note on -
 - (a) Types of tapes
 - (b) Properties of concrete
 - (c) Types of foundations
 - (d) Floor space index