

2E2305

Roll No. \_\_\_\_\_

2E2305

B. Tech. II Sem. (Main) Exam., May – 2018

CE -103 Basic Civil Engineering

Time: 3 Hours

Maximum Marks: 80  
Min. Passing Marks: 28*Instructions to Candidates:*

Attempt any **five** questions including Question No. 1, which is Compulsory. All questions carry **equal** marks. 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. NIL2. NIL

Q-1 Compulsory, Answers for each sub-question be given in about 25 words. [8×2=16]

- What is the object of surveying?
- What is Representative fraction?
- Explain the indirect ranging?
- What is Magnetic declination?
- Explain the height of instrument?
- Define the floor space index?
- What is the main function of alumina in brick?
- What is the initial setting time for ordinary portland cement as per IS specifications?

Q.2 (a) What is local attraction? How is it detected and eliminated? [8]

(b) The length of a line measured with a 20 meter chain was found to be 250 meters.

Calculate the true length of the line, if the chain was 10 cm too long? [4]

(c) Write a short note on total station. [4]

Q.3 (a) Explain the importance of a Civil Engineer in society? [8]

(b) What are the various uses of stones? [4]

(c) Mention the uses of cement. [4]

Q.4 (a) What should be the planning for proper sunlight and ventilation in a building? [8]

(b) Explain the basic concept of R.C.C.? [4]

(c) Write the components of a building. [4]

Q.5 (a) Explain the various road traffic signs. [8]

(b) Define levelling. Explain spirit levelling. [4]

(c) Write a short note on building bye-laws? [4]

Q.6 (a) Explain ranging out survey lines. [8]

(b) What are the impacts of infrastructural development on economy of country? [4]

(c) What are the qualities of good bricks? [4]

- Q 7 (a) Write the characteristics of various modes of transportation (8)
- (b) What are the basic systems of notation of bearings? (4)
- (c) Write a short note on road safety measures (4)

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