

Seat
No.

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AOI1326

Elements of Civil Engineering (Old) (1110)

P. Pages : 2

Time : Two Hours

Max. Marks : 50

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Solve **any two** questions from each unit.
5. Use of non - programmable calculator is allowed.
6. Draw neat sketches wherever necessary.
7. Assume suitable data if necessary.

UNIT - I

1. a) What is Dam ? Write down uses of Dams. 5
- b) Explain about structural Engineering. 5
- c) How will you classify water storage reservoirs ? Explain the same in brief. 5

UNIT - II

2. a) Explain temporary adjustments of compass. 5
- b) Distinguish between whole circle Bearing system and Reduced Bearing system. 5
- c) The distance between two - kilometer stone was measured with 20m chain, which was found 15cm too long after measurement, calculate the length measured by chain. If length of chain of initial stage was correct. 5

UNIT - III

3. a) Explain the following :- 5
 - i) Change point.
 - ii) Backsight reading.
 - iii) Foresight reading.
 - iv) Height of instrument.
 - v) Intermediate sight.

- b) Describe with neat sketches the characteristics of contour lines. 5
- c) What is mean by Levelling staff. Describe the types of Levelling staff. 5

UNIT - IV

4. a) Explain Building - Bye - Laws. 5
- b) Write short note on prospect' as principle of planning. 5
- c) What are the advantages of framed structure over load bearing structures. 5

UNIT - V

5. a) State characteristics of good bricks. 5
- b) What is seasoning of Timber. 5
- c) Write short notes on : 5
- i) Bitumen.
 - ii) Cement.
