

No. of Printed Pages : 03

Roll No.

B6

B. Tech. EXAMINATION, May 2019

(Second Semester)

(B. Scheme) (Re-appear Only)

(Common with all Branches)

CE102B

BASICS OF CIVIL ENGINEERING

Time : 3 Hours]

[Maximum Marks : ???

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit.

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P.T.O.

Unit I

1. (a) What are various types of steels used in construction ? Discuss their properties. **8**
(b) Describe various forms of commercially available timber. **7**
2. (a) List various component parts of building. Describe DPC. **8**
(b) Explain various types of foundations. **7**

Unit II

3. (a) Explain basic principles of surveying ? What is leveling ? Discuss its applications. **8**
(b) Explain the uses of a contour map. Define contour interval. **7**
4. (a) Define GIS, GPS and Remote Sensing. **3+2+3**
(b) Explain reciprocal leveling. Where will you use this method ? **7**

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Unit III

5. (a) Explain salient features of 20 year road plan in India. **8**
(b) What are various agencies involved in road development in India ? Describe contributions of IRC. **7**
6. (a) Explain various types of dams. Describe the usage of dams and their impact on the environment. **8**
(b) What is Water Budget Equation ? Explain its significance. **7**

Unit IV

7. (a) What do you understand by engineering properties of soil ? Define liquid limit and explain its importance. **8**
(b) Describe the need and impact of irrigation on human environment. **7**
8. Write short notes on the following :
 - (i) Building Services
 - (ii) Classification of stones
 - (iii) Soil classification. **15**

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