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2E1013

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**B.Tech. I Year II Sem. (Old / Back) June-July
Examination, 2015****205 (A) Basic Civil Engineering**

Time: 3 hours

Maximum Marks: 80

Min. Passing Marks: 24

Note: Attempt any **five questions**, selecting **one question** from **each unit**. 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).

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UNIT-I

- Q. 1 (a) Explain the functions of the ingredients of portland cement. 8
(b) What are the characteristics of good timber? 8

OR

- Q. 1 (a) What are the properties of plastics? 8
(b) Write a brief note on properties and uses of fibre reinforced concrete. 8

UNIT-II

- Q. 2 (a) Explain the term 'foundation'. Enumerate the various types of building foundation. 8
(b) Write a note on plastering and pointing of masonry walls. 8

OR

- Q. 2 (a) Write in detail about different types of doors. 8
(b) Describe the treatment of buildings against dampness. 8

UNIT-III

- Q. 3 (a) Write about different types of levels. 8
(b) What is 'Plane table surveying'? 8

OR

- Q. 3 (a) What are the various methods of measurement of distances? 8
(b) What are the essential parts of theodolite? 8

UNIT-IV

- Q. 4 (a) Discuss the characteristic features used while plotting or reading a contour plan. 8
(b) Discuss the method of measuring volume in field. 8

OR

- Q. 4 (a) What are the different applications of 'Remote Sensing'? 8
(b) Write a note on 'Survey Stations'. 8

UNIT-V

- Q. 5 (a) Discuss 'Continuity Equation'. 8
(b) What are the applications of 'Bernoulli's equation'? 8

OR

- Q. 5 (a) Explain the terms 'Total Pressure' and 'Centre of Pressure'. 8
(b) What is meant by stability of floating bodies? 8

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