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Total No. of Questions:5]

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CE-404

B.E. IV Semester

Examination, December 2016

Construction Materials and Techniques

Time: Three Hours

Maximum Marks: 70

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- Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
- ii) All parts of each question are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.
- List out the characteristics of good building stone.
 - Explain the seasoning of timber before its use as building material.
 - Write the different tests conducted on bricks to assess their quality. Brief.
 - Describe about the different types of flooring tiles.

OR

Describe the manufacturing process of clay bricks.

- Explain about the fly ash and their sources of production in India.
 - Give the details about materials used in D.P.C.
 - Write down the characteristics of fly ash bricks. c)
 - Describe about any building material made from industrial waste. Also explain about its environmental impact.

OR

Describe the recent advance materials used for flooring works in buildings.

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- 3. a) Define the term "Bearing capacity" of soil.
 - Explain about the soil stabilization and its importance.
 - Write the permissible settlement criteria for building foundation.
 - Describe the different types of foundations used in building structures.

OR

Explain the causes of foundation failure in black cotton soil. Give the construction details of under-ream pile.

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- Explain about the "Brick cavity" wall.
 - Differentiate between load bearing wall and non-load bearing wall.
 - Discuss the rule of proportionality.
 - Describe the different stairs used in buildings.

OR

Describe the different types of distempers used in wall paintings.

- Define the term "Thermal insulation".
 - List the different types of materials for sound insulation.
 - Explain the techniques of repairs to cracked buildings.
 - Describe the different techniques and materials used for low cost housing projects.

OR

Discuss the different types of roofs used in building construction.

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