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## Roll No .....

## **CE-404**

## **B.E. IV Semester**

Examination, June 2016

## **Construction Materials And Techniques**

Time: Three Hours

Maximum Marks: 70

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- Note: i) 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.
- What do you mean by seasoning of stone?
  - b) Write the engineering properties of timbers.
  - Explain the different tests conducted on bricks to assess the quality.
  - Describe the methods of quarrying of stone for use in stone masonry.

OR

Describe the different flooring tiles and their characteristics.

- Explain about the fly ash mortar.
  - mention the ingredients of D.P.C. material for water proofing work.
  - Explain one of the advance materials used in flooring.
  - Discuss the building materials manufactured from industrial wastes.

OR

Write notes on:

- Stabilized mud blocks
- ii) Fascia material

- Define the term "Bearing capacity of soil".
  - List out the different soil type encountered in India.
  - Describe the soil-cement stabilization techniques.
  - Briefly describe the different types of building foundation.

OR

Write notes on:

- failure of foundation
- ii) Repair techniques for foundation
- Draw the sketch of Flemish bond in brick masonry with its description.
  - Write the difference between load bearing and non-load bearing walls.
  - Discuss the common defects, which may occur during construction of masonry walls.
  - Write the short notes on:
    - i) Hollow concrete blocks
    - ii) Precast stone masonry blocks

OR

Describe the different types of RCC stairs used in buildings.

- Explain about the Ferro-cement roofing.
  - Explain the term "false ceiling".
  - Describe the sound insulation system in an auditorium hall.
  - Write notes on:
    - i) Reinforced brick concrete
    - ii) R.C.C. Jack Arch.

OR

Describe the materials used in low cost housing in India. Explain the construction techniques too.

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