

Roll No.: 178230044

Total No. of Questions : 5]

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EG-291

**B.E. III Semester (CGPA) Civil Engg.
Examination 2018**

**ENGINEERING MATERIALS AND
CONSTRUCTION**

Paper - CE-303

Time Allowed : Three Hours]

[Maximum Marks : 60

Note : i) All questions are compulsory.

ii) All question carry equal marks.

iii) Attempt only any two parts from each question.

iv) Answer should be to the point only.

- Q.1
- a) What are requirements of good mortar? How is cement mortar different than lime mortar?
 - b) Explain dressing of stone.
 - c) Give classification and their specification for bricks.
 - d) What are pollution control devices? Explain any one with neat sketch.

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- Q.2
- a) Describe any two industrial waste material commonly used.
 - b) What are polymeric material how are they produced?
 - c) What are methods of safe disposal of waste material?
 - d) What is environmental pollution how it is to be protected?
- Q.3
- a) How soil investigation of an industrial building is carried out.
 - b) What are under ream pile foundation? How are they constructed?
 - c) Describe damp proof courses where and why are they provided?
 - d) What are spread foundations? under what conditions are they provided?
- Q.4
- a) What are cavity walls? Where and why they are provided?
 - b) What are various roof materials used give advantages of each type?

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- c) Discuss precautions to be carried out while laying brick masonry wall.
- d) Describe step by step construction of false ceiling.

- Q.5
- a) What are various types of door shutters? Sketch a panel door and mark components parts.
 - b) Describe how report of a damaged wall can be carried out for a residential building?
 - c) What precautions are to be taken for drainage work in a residential work?
 - d) What are commonly used stair cases used for residential building explain with neat sketches.

