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Total No. of Questions : 5] [Total No. of Printed Pages : 3

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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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(2)

- 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 repair 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.

