Roll No. 15.8 Ulfrians

Total No. of Questions: 5]

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B.E. IIIrd Semester (CGPA) Examination, 2017

EFS-322

CIVIL. ENGG.

(Engg. Materials and Construction)

Paper: CE-303

Time: 3 Hours]

[Maximum Marks: 60

- Note: Attempt all questions. Solve any two parts only from each question. All parts carry equal marks.
- 1. (a) What is dressing of stone? Why and how it is done?
 - (b) Classify bricks and state specifications of each type.
 - (c) Explain how high strength concrete is made.
 What are its uses?

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Turn Over

- (d) Differentiate between Cement mortar, Surkhi mortar and Lime mortar.
- 2. (a) What is the need of wood substitutes? What are different wood substitutes available for Doors and Windows.
 - (b) Differentiate between Batten boards, Hard board, Black board and particle board.
 - (c) What is Flyash? How is it obtained? Why is it used as ad mixture in cement and concrete?
 - (d) Discuss use of different materials available for damp proof courses in building.
- 3. (a) Describe important points for selection of a site for school and building. Explain orientation.
 - (b) What preliminary investigations are required for construction of a building? Explain also trial Pit bearings for investigation.
 - (c) What is bearing capacity? How is it obtained?
 - (d) What type of foundation is laid in black cotton soils? Sketch the type of foundation.

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- 4. (a) Discuss various types of Bonds in brick masonry

 Draw neat sketches.
 - (b) What are non-load bearing walls? Give their advantages and disadvantages.
 - (c) What is importance of distempering and colour washing?
 - (d) What are various causes of dampness and how is it prevented?
- 5. (a) What are various types of doors used in residential buildings? Draw at least ten common types.
 - (b) What are (i) Dormer windows, (ii) Louvered windows, (iii) Striding window and (iv) Pivoted window. Explain with neat sketches.
 - (c) What are various stairs (type) used in commercial building? Sketch at least two types and lebel their components.
 - (d) Write short note on fire protection.