

Code No: R09220106

R09

Set No. 2

II B.Tech II Semester Examinations, April/May 2012
BUILDING MATERIALS, CONSTRUCTION AND PLANNING
Civil Engineering

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. Write brief note on the composition of clays used for
 - (a) Common bricks.
 - (b) Fire clays.
 - (c) Sand-lime bricks. [15]
2. Write a short notes on the following:
 - (a) Materials for service pipe.
 - (b) Storage tanks.
 - (c) Water requirements for buildings. [15]
3. Describe various defects of brick work. [15]
4. Give a short account of the various process in the manufacture of Portland cement? [15]
5. Write short note on the following:
 - (a) Wooden stairs
 - (b) R.C.C.Stairs.
 - (c) Spiral stairs. [15]
6. (a) Explain about the drawings are to be submitted for the approval of the construction of a house.
(b) What are the building by laws for municipalities? [8+7]
7. (a) Describe in brief various types of shores?
(b) Explain the term dead shore? [7+8]
8. (a) Explain different forms of aluminum?
(b) Explain the classification of glass? [7+8]

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1. With neat sketches explain the following?
 - (a) Lean-to-roof
 - (b) Terrazzo flooring.
 - (c) Haunch
 - (d) Brick Lintels. [15]

2. (a) Explain the classification of bricks?
(b) Discuss the process of burning bricks in clamps? [7+8]

3. Explain various requirements of a good acoustic material. What are the standards? [15]

4. Explain the requirements for the following elements of a residential house.
 - (a) Kitchen.
 - (b) Lavatory.
 - (c) Stair case.
 - (d) Living room. [15]

5. Write a short notes on :
 - (a) Frint glass.
 - (b) Fabrication.
 - (c) Glass melting pot. [15]

6. Explain the pit method of under-pinning in detail with neat sketches? [15]

7. Explain about different mineral admixtures? [15]

8. Explain with sketches, various types of joints used in ashlar stone masonry? [15]

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1. (a) Explain the difference between
 - i. Igneous rocks and metamorphic rocks.
 - ii. Rocks and minerals.
 - iii. Lime stone and sand stone.(b) Briefly explain about stratified and un stratified rocks? [8+7]
2. Explain with a neat sketches different types of Brick masonry? [15]
3. Explain with neat sketches about.
 - (a) Load bearing walls
 - (b) Partition walls.
 - (c) Capitation walls. [15]
4. Differentiate between the following:
 - (a) Dry Process and wet process.
 - (b) Initial setting time and final setting time.
 - (c) Clinkers and nodules. [15]
5. Explain how do you achieve fire resistance construction for the following elements:
 - (a) Walls and columns
 - (b) Floors and roofs. [15]
6. Explain the manufacturing process of Aluminum? [15]
7. Explain the requirements of the following components of a building:
 - (a) Plinth height.
 - (b) Mezzanine floor.
 - (c) Stair case.
 - (d) Building height. [15]
8. Write short notes on:
 - (a) Flying shore
 - (b) Horizontal shores

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(c) Cleaning and surface treatment of shuttering.

[15]

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Answer any FIVE Questions
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1. (a) Explain various practical points to be considered while planning a building?
(b) Explain various principles underlying building by laws? [8+7]
2. (a) Explain the properties of a good building stone?
(b) Explain different methods of quarrying? [7+8]
3. (a) Explain about dead (or) vertical shores?
(b) Describe the Form work for beam and slab construction? [7+8]
4. Write a detailed note on fire safety requirement for buildings? [15]
5. (a) Distinguish clearly between a lintel and an arch?
(b) How do a flat stone arch differ from a lintel? [7+8]
6. Explain how the fineness of cement is determined using air permeability test? [15]
7. What do you understand by the term seasoning of timber? Explain the objects of Seasoning in detail? [15]
8. Write short notes on:
 - (a) Lacing course.
 - (b) String Course.
 - (c) Through stone and reveal. [15]
