

Code No: R09220106

R09

Set No. 2

II B.Tech II Semester Examinations, APRIL 2011
BUILDING MATERIALS, CONSTRUCTION AND PLANNING
Civil Engineering

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the geological classification of rocks. Give example of each type? [15]
2. Describe various types of paints, and their suitability or use? [15]
3. Explain in detail various systems of mechanical ventilation. [15]
4. Describe in brief any type of manufacture of cement with the help of flow diagram? [15]
5. What do you understand by the term decay OF timber? What are common causes of decay of timber? [15]
6. Explain
 - (a) Flying (or) horizontal shores
 - (b) Dead (or) vertical shores. [7+8]
7.
 - (a) Explain about Internal and external stair ways?
 - (b) Explain various practical points to be considered while planning a building? [7+8]
8.
 - (a) Explain acid - proofing of floors?
 - (b) Explain Cement concrete flooring? [7+8]

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R09**Set No. 4**

II B.Tech II Semester Examinations, APRIL 2011
BUILDING MATERIALS, CONSTRUCTION AND PLANNING
 Civil Engineering

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
 All Questions carry equal marks

1. (a) Explain about three-coat lime plaster?
 (b) Explain various types of composite masonry? [7+8]
2. Write short notes on :
 (a) Lean-to-roof.
 (b) Couoked roof.
 (c) Coupled-close roof.
 (d) Collar roof. [15]
3. What are requirements of a good form work? Describe the steps that should be taken to effect economy in the expenditure on formwork? [15]
4. What do you understand by
 (a) ventilation
 (b) air conditioning
 Explain the necessity of each of them? [15]
5. What do you understand by the term seasoning of timber? Explain the objects of Seasoning in detail? [15]
6. (a) Describe various reasons of the decay of stones?
 (b) Explain the characteristics of gneiss and laterate? [7+8]
7. Explain about different mineral admixtures? [15]
8. (a) Explain the requirements for lighting and ventilation in kitchens and living rooms of a residential building?
 (b) Describe about Site plans and building plans. [8+7]

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R09

Set No. 1

II B.Tech II Semester Examinations, APRIL 2011
BUILDING MATERIALS, CONSTRUCTION AND PLANNING
Civil Engineering

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. What is air conditioning? Discuss in the requirements of Air conditioning. [15]
2. (a) Explain various types of plaster finishes?
(b) Explain header bond in brick masonry? [7+8]
3. Explain, with the help of neat sketches different types of foundations? [15]
4. Write short notes on :
 - (a) Tempering.
 - (b) Frog.
 - (c) Grounded - Moulded Bricks.
 - (d) Tunnel Kiln. [15]
5. What are the various methods of seasoning timber? Explain in detail? [15]
6. Explain the requirements for the following elements of a residential house. What is occupancy of building? Explain how the buildings are classified according to occupancy of building? [15]
7. Write short notes on:
 - (a) Flying shore
 - (b) Horizontal shores
 - (c) Cleaning and surface treatment of shuttering. [15]
8. (a) Explain Bogue's compounds?
(b) Explain why gypsum is added during the manufacture of cement? [7+8]

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R09**Set No. 3**

II B.Tech II Semester Examinations, APRIL 2011
BUILDING MATERIALS, CONSTRUCTION AND PLANNING
Civil Engineering

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
 All Questions carry equal marks

1. Explain in detail various characteristics of sound as applicable to the acoustic design of a room. What are the standards? [15]
2. Describe the working of any intermittent kiln known to you with the help of a neat Sketches? [15]
3. (a) Explain various practical points to be considered while planning a building.
 (b) Explain about floor area ratio. [8+7]
4. Explain in detail the process of manufacturing glass? [15]
5. Describe
 - (a) Flying shore
 - (b) Tubular scaffolding
 - (c) Form work for square and round columns. [15]
6. Write short note on the following:
 - (a) Wooden stairs
 - (b) R.C.C.Stairs.
 - (c) Spiral stairs. [15]
7. (a) What do you understand by modular bricks?
 (b) Draw sketches for the following bricks :
 - i. Bull Nose Brick
 - ii. Cant brick
 - iii. Plinth header
 - iv. Plith stretcher. [15]
8. (a) What are air entraining agents? How these air entraining agents help in improvig performance of cement?
 (b) Explain why gypsum is added during the manufacture of cement? [7+8]
