

II B.Tech I Semester Supplementary Examinations, November 2006
CIVIL ENGINEERING MATERIALS & CONSTRUCTION
(Civil Engineering)

Time: 3 hours**Max Marks: 80**

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Write a note on stone quarrying and what are the precautions to be taken while blasting?
(b) Write briefly about coursed rubble masonry and ashlar masonry, supporting your answer with sketches. [6+10]
2. (a) What are the characteristics of a good brick?
(b) Explain the construction of English bond brick masonry and draw sketches to show 1 Brick, $1\frac{1}{2}$ Brick and 2 Brick wall in this bond. [4+12]
3. (a) Write a detailed note on mixing, transporting, placing and compacting concrete.
(b) Explain the curing process of concrete, explaining how to get optimum strength in different climatic conditions. [10+6]
4. (a) What are the different types of wood used in buildings? Write a brief note on the uses of each.
(b) What are the common defects in timber?
(c) Why is seasoning of timber done. Explain the procedure. [5+5+6]
5. (a) Explain the design and construction of raft foundations, supporting your answer with neat sketches.
(b) What are the important causes of dampness in a building and how does it affect the structure? [10+6]
6. (a) Write a note on the construction of mosaic and terrazo floors.
(b) Sketch and explain briefly a couple and couple close roof. [8+8]
7. (a) List the types of arches according to their shape and explain them briefly with sketches.
(b) Why is a lintel preferred over an arch? Write about construction of r.c.c lintel. [8+8]
8. Write short notes on any THREE:
 - (a) Constituents of a paint and types of paint
 - (b) Scaffolding
 - (c) Different types of staircases

(d) Cavity walls.

[16]
