

II B.Tech I Semester(R07) Supplementary Examinations, May/June 2010  
BUILDING MATERIALS AND CONSTRUCTION  
(Civil Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

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1. Explain different methods of moulding of bricks with emphasis on which method is suitable based on consistency of earth. [16]
2. Describe in brief the different types of tiles. [16]
3. (a) Explain the constituents of lime stone.  
(b) Write short notes on Hydraulic lime and its types.  
(c) Write the uses of lime. [8+4+4]
4. Explain the various methods of timber seasoning stating relative advantages and disadvantages. [16]
5. At what point should a cavity wall be started and terminated in the construction of a wall. Draw a neat sketch of treatment given to cavity wall when cavity wall is stopped at:  
(a) Sill of window  
(b) Top of parapet wall  
(c) Below the top of parapet wall but above the roofing. [16]
6. (a) What type of foundation would you propose for a multi storeyed office building in:  
i. Very soft soil  
ii. Black cotton soil. Describe briefly.  
(b) Draw a neat sketch and discuss when do you use this type of foundation:  
i. Inverted arch foundation  
ii. Strap footing. [8+8]
7. (a) Define flat roof? What are its advantages and disadvantages?  
(b) Explain the construction procedure of Mosaic flooring and when is this flooring preferred. [10+6]
8. (a) State the objectives of varnishing and point out the characteristics or qualities of a good varnish.  
(b) What are different types of pointing? Explain each type of pointing with a suitable sketch? [8+8]

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