

Code No: OR210155

**OR**

**II B.Tech. I-Semester Supplementary Examinations April/May-2005**

**BUILDING MATERIALS AND CONSTRUCTIONS**  
**(Civil Engineering)**

**Time: 3 hours**

**Max. Marks: 70**

**Answer any FIVE questions**  
**Selecting a minimum of any TWO from each part**  
**All questions carry equal marks**

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**PART-A**

- 1.a) State the various tests to be conducted on building stones. Explain any three of them.
- b) What precautions to be taken in the process of blasting.
- 2.a) Describe briefly two ways of moulding of bricks.
- b) State the advantages and disadvantages of sand-lime bricks.
- 3.a) Compare fat lime with Hydraulic lime.
- b) What are the various ingredients of cement concrete and their importance.
- 4.a) State the advantages of plastics over other building materials commonly used.
- b) What do you understand by thermal insulation of buildings? Why is it necessary? State its various advantages.

**PART-B**

- 5.a) Describe the different forms of rubble masonry.
- b) Compare brick work with stone work.
- 6.a) Discuss the causes and effects of dampness.
- b) Write a short notes on the following:  
(i) Curved roofs              (ii) Purlin roof.
- 7.a) What are the ingredients of an oil borne paint? Describe briefly.
- b) Mention the different types of varnishes and describe the process of varnishing on wood work.
- 8.a) What are the requirements of formwork.
- b) Sketch a typical timber form work adopted for R.C.C column.

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