

**2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**

**I I B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS  
BUILDING MATERIAL AND CONSTRUCTION  
(CIVIL ENGINEERING)**

**APRIL/MAY 2005**

**TIME 3 HOURS  
MARKS: 80**

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**Answer any FIVE Questions  
All Questions carry equal marks**

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.
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.