

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: B. ARCH.
BRANCH: ARCHITECTURE

SEMESTER : I
SESSION : MO/18

SUBJECT: AR102 PRIMARY BUILDING MATERIALS

TIME: 3:00 HRS.

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) What is brick? What are the requirements of good quality bricks? State its different types. [5]
Q.1(b) Distinguish between the following: [5]
i. Igneous rocks and sedimentary rocks.
ii. Natural stone and artificial stone.
- Q.2(a) What is cast iron? Describe how it is manufactured from iron ore? [5]
Q.2(b) What is meant by industrial timber? What are its varieties? [5]
- Q.3(a) What are OPC, PPC and PSC? What type of cements are commonly used for reinforced concrete construction? [5]
Q.3(b) Describe in detail what is meant by the bulking of sand. [5]
- Q.4(a) How are mortar classified on the basis of kind of binding materials? [5]
Q.4(b) Explain the classification of lime. [5]
- Q.5(a) How concrete transported and what are the precaution to be taken during the placing of concrete? [5]
Q.5(b) What is mean by curing of concrete? What are its purposes? [5]

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