

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)**

**CLASS: BARCH
BRANCH: ARCHITECTURE**

**SEMESTER: I
SESSION: MO/2018**

SUBJECT: AR102 PRIMARY BUILDING MATERIALS

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates may attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
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- Q1. (a) Discuss the process of burning bricks in clamps. [2]
Q1. (b) What are the constituents of good brick earth? How does excess of each of the constituents affects the quality of bricks? [3]
- Q2. (a) What is the natural bed of stones? Why is it necessary to set a stone along its natural bed? [2]
Q2. (b) Discuss the geological classification of stone. [3]
- Q3. (a) What is meant by dressing of a stone? Describe its various varieties. [2]
Q3. (b) Give reasons: - [3]
 a. A frog is placed on raw bricks during moulding
 b. A small quantity of oxide of iron is desirable in good brick earth.
- Q4. (a) How is wrought-iron manufactured? Explain its different steps which are involved in manufacturing process. [2]
Q4. (b) Describe the various process adopted to manufacturer steel, and explain L.D. process in detail? [3]
- Q5. (a) Draw a neat cross-section of stem of an exogenous tree and show various components of it. [2]
Q5. (b) What is seasoning of timber? Why it is required? State various methods of seasoning and explain any two. [3]

::: 10/10/2018 M :::