

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

**CLASS: BARCH  
BRANCH: ARCH**

**SEMESTER: I  
SESSION : MO/2019**

**SUBJECT : AR102 PRIMARY BUILDING MATERIALS**

**TIME: 2.00 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.
- 

- Q1 (a) What are the constituents of good brick earth? [2]  
Q1 (b) Describe, in brief, methods for testing the main properties of bricks as per BIS specifications. [3]
- Q2 (a) Discuss the process of burning bricks in clamps. [2]  
Q2 (b) Write properties of good bricks. [3]
- Q3 (a) What are the qualities of a good building stone? Discuss them. [2]  
Q3 (b) Give reasons [3]  
    a. The stones are gradually losing their popularity as the building material.  
    b. The porous stones seriously affect the durability of stones.
- Q4 (a) What is the natural bed of stones? Why is it necessary to set a stone along its natural bed? [2]  
Q4 (b) What is meant by dressing of a stone? Describe its various varieties. [3]
- Q5 (a) How is wrought-iron manufactured? Explain its different steps which are involved in manufacturing process. [2]  
Q5 (b) Describe the various process adopted to manufacturer steel and explain L.D. process in detail. [3]

::: 15/10/2019 M :::