

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

**CLASS: B. ARCH
BRANCH: ARCHITECTURE**

**SEMESTER: I
SESSION: MO/2022**

SUBJECT: AR102 PRIMARY BUILDING MATERIALS

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates.
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	CO	BL
Q.1(a) State the harmful ingredients in brick earth.	[2] CO2	Understand
Q.1(b) What are the constituents of good brick earth?	[3] CO2	Remember
Q.2(a) What are the qualities of a good building stone? Discuss them.	[2] CO1	Remember
Q.2(b) What is meant by dressing of a stone? Describe its various varieties.	[3] CO2	Understand
Q.3(a) Discuss the process of burning bricks in clamps.	[2] CO1	Apply
Q.3(b) Distinguish between the following: a. hand moulding and machine moulding b. Natural stone and artificial stone.	[3] CO2	Understand
Q.4(a) How is artificial stone prepared? What are its different forms?	[2] CO1	Understand
Q.4(b) Give reasons a. The stones are gradually losing their popularity as building material. b. The porous stones seriously affect the durability of stones.	CO3	Apply
Q.5(a) Draw a neat cross-section of stem of an exogenous tree and show various components of it.	[2] CO2	Understand
Q.5(b) What is the seasoning of timber? Why is it required? State various methods of seasoning and explain any two.	[3] CO3	Remember

::: 17/01/2023 :::M