

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP/2025)

CLASS: BARCH
BRANCH: ARCHITECTURE

SEMESTER : II
SESSION : SP/2025

SUBJECT: AR151 ADVANCED BUILDING MATERIALS

TIME: 02 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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Q.1(a)	What is the role & responsibility of structural & non-structural materials in building construction?	[2] 4	4
Q.1(b)	Describe the relevant factors for selection of floor and wall tiles.	[3] 5	3
Q.2(a)	Define sustainable building materials with examples.	[2] 4	2
Q.2(b)	Describe the checklist for selection of sustainable building materials.	[3] 4	3
Q.3.	Write short notes on (any two) : a) Vitrified Tiles b) Waterproofing Compounds c) Framed structure	[5] 5	1
Q.4(a)	Differentiate between ferrous & non-ferrous metals.	[2] 1	4
Q.4(b)	What are the different types of corrossions found in building materials? Discuss the preventive measures of it.	[3] 2	5
Q.5(a)	Why Aluminum is largely being used in building industry?	[2] 1	4
Q.5(b)	What are accelerators? Discuss its types and applications in construction.	[3] 3	1

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