

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP2023)

CLASS: B.ARCH
BRANCH: ARCHITECTURE

SEMESTER : II
SESSION : SP/2023

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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		CO	BL
Q.1(a)	What are different forms of aluminum? Describe each of them with suitable example.	[2]	1 2
Q.1(b)	Enumerates the various copper alloys in details?	[3]	1 1
Q.2(a)	What is an alloy? How is it formed?	[2]	1 2
Q.2(b)	Mention the characteristics of Aluminum as an important building material.	[3]	1 2
Q.3(a)	Write short notes on: a. Duralumin b. Naval brass	[2]	2 1
Q.3(b)	What are the characteristics of a good tile?	[3]	5 2
Q.4(a)	Give reasons a. the floor tiles should be hard and durable. b. The tiles are dried under shade.	[2]	5 3
Q.4(b)	What are difference in the requirements of floor tiles and wall tiles? In what places would you consider tiling the walls?	[3]	5 4
Q.5(a)	Write short notes on: a. Electrolytic theory of corrosion. b. Stress corrosion.	[2]	2 2
Q.5(b)	Explain the different theories of Corrosion detailing any one of them.	[3]	2 4

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