BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION SP/2024)

CLASS: B.ARCH SEMESTER: II
BRANCH: ARCHITECTURE & PLANNING SESSION: SP/2024

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

Q.1(a)	What are the various non-ferrous metals utilized in the construction industry, and	[2]	CO 1	BL 2
Q.1(b)	provide a brief description of each? What is the difference between Brass and bronze? Explain the properties of each.	[3]	3	2
Q.2(a) Q.2(b)	What is an alloy? How is it formed? Write about Aluminium as a building material with suitable examples?	[2] [3]	2	2
Q.3(a) Q.3(b)	What is meant by the term tile? Explain the following term 1. Earthenware 2. Mangalore tiles	[2] [3]	1	3 1
Q.4(a) Q.4(b)	What is meant by the term refractories? Give reasons:	[2] [3]	1 2	2
Q.4(D)	a. a mixture of ground pottery ware is sometimes added to the clay of tiles.b. the tiles are dried under a shade.	[2]	2	2
Q.5(a) Q.5(b)	What criteria should be considered when selecting high-quality flooring tiles? What are the step-by-step procedures involved in the elaborate process of making IPS (Indian Patent Stone) flooring?	[2] [3]	3	5 6

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