

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

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

**SEMESTER: II
SESSION: SP/2024**

SUBJECT: AR151 ADVANCED BUILDING MATERIALS

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a) What are the factors which are responsible for causing corrosion?	[5]	3	1
Q.1(b) explain the manufacturing process of the Aluminum.	[5]	1	2
Q.2(a) What is terra-cotta? How is it manufactured?	[5]	1	1
Q.2(b) Differentiate between the following.	[5]	2	2
a. salt glazing and lead glazing			
b. Floor tiles and roof tiles			
Q.3(a) What is meant by light weight concrete? What are its advantages?	[5]	1	4
Q.3(b) Differentiate between the following.	[5]	2	1
a. pre cast concrete and cast-in-situ concrete.			
b. natural aggregates and artificial aggregates.			
Q.4(a) Mention the different types of varnishes and describe the process of varnishing on woodwork?	[5]	2	1
Q.4(b) Write notes on: requirement of good paints.	[5]	3	4
Q.5(a) Write a critical note on plastics as an engineering material.	[5]	3	2
Q.5(b) State the special verities of glass and briefly describe them.	[5]	2	4

:23/04/2024:E