

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

**CLASS: BARCH
BRANCH: ARCH**

**SEMESTER: II
SESSION : SP/2020**

SUBJECT : AR151 ADVANCED BUILDING MATERIALS

TIME: 1.5 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates may attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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			CO	BL
Q1	(a) What are the different forms of Aluminium?	[2]	CO1	Analyse
Q1	(b) What is an alloy? Describe the properties and uses of brass and bronze.	[3]	CO2	Understand
Q2	(a) Discuss the important properties and engineering application of any one of the following metals a. copper b. Aluminium	[2]	CO3	Analyse
Q2	(b) What are the various forms of corrosion?	[3]	CO2	Remember
Q3	(a) Enumerate the preventive measure to be taken to minimize the chances of development of corrosion of steel in concrete.	[2]	CO3	Analyse
Q3	(b) Differentiate between the following a. dry corrosion and wet corrosion b. galvanizing and sherardizing	[3]	CO3	Analyse
Q4	(a) What is terra-cotta? How is it manufactured.	[2]	CO2	Remember
Q4	(b) Explain what is meant by earthenware, stoneware and porcelain.	[3]	CO3	Analyse
Q5	(a) Explain the procedure of construction of IPS flooring.	[2]	CO2	Create
Q5	(b) Explain with reasons what type of floor finishing will be required for a. dancing hall b. operation theatre c. workshop	[3]	CO3	Apply

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