

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

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

**SEMESTER: II  
SESSION: SP/2019**

**SUBJECT: AR151 ADVANCE BUILDING MATERIAL**

**TIME: 2 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.
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- Q1 (a) Discuss the economics of using aluminium products. [2]  
(b) Distinguish between the following: [3]  
a. Brass and Bronze  
b. Base metal and alloying elements
- Q2 (a) Write a critical note on the corrosion of non-ferrous metals. [2]  
(b) Discuss the various methods which are usually adopted to prevent the corrosion of ferrous metals. [3]
- Q3 (a) What is terra-cotta? How is it manufactured? [2]  
(b) What is a glaze? Mention the purposes of glazing and discuss its varieties. [3]
- Q4 (a) What are the factors which affect the choice of flooring material? [2]  
(b) Write short notes on: [3]  
a. Manglore tiles  
b. Salt glazing
- Q5 (a) What is IPS flooring? Describe the making process of IPS flooring? [2]  
(b) What are different types of tiles and discuss the tests performed to check the quality of tiles. [3]

::: 01/03/2018 :::M