

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B. ARCH. DEGREE EXAMINATION – DEC 2019/JAN 2020

**SUBJECT: ARC -14-107 – BUILDING MATERIALS
(2014 SCHEME)**

Monday, December 30, 2019

Time: 10:00 – 13:00 Hrs.

Max. Marks: 50

- ✍ Answer any FIVE questions from the following.
✍ Answer all parts of a question. Give sketches wherever necessary.

1A. Explain the classification of rocks based on its geological formation and physical characteristics. Give relevant examples.

1B. What is the composition of clay? Describe the properties of clay.

(6+4 = 10 marks)

2A. Explain the characteristics of different classes of brick.

2B. Discuss the properties and applications of cement.

(6+4 = 10 marks)

3A. What are polymeric materials? Explain the types of plastic on the basis of its structure and heating capacity.

3B. Describe the composition of paint.

(6+4 = 10 marks)

4A. Explain any four types of mortar.

4B. Explain the process of Calcination of Lime.

(4+6 = 10 marks)

5A. Explain the structure of Timber in detail with sketches.

5B. Explain the properties and applications of plywood and fibreboard.

(4+6 = 10 marks)

6A. Discuss any two ferrous metals with its properties and application.

6B. Explain the composition of steel.

(6+4 = 10 marks)

