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## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B. ARCH. DEGREE EXAMINATION – NOVEMBER 2019

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

Monday, November 11, 2019

Time: 14:00 – 17:00 Hrs.

Max. Marks: 50

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

1A. What are the selection criteria for a Quarry Site? Explain two methods of quarrying with relevant sketches.

1B. Explain the importance of the constituents in cement.

(5+5 = 10 marks)

2A. What are the properties of a good quality clay?

2B. Explain the classification of Ferrous Metals. Give examples for their application.

(5+5 = 10 marks)

3A. Specify and elaborate any five qualities of good timber.

3B. What is lime as building material? Discuss the manufacturing of lime.

(5+5 = 10 marks)

4A. Explain any two types of Special mortars with their application.

4B. Briefly explain the defects in steel.

(4+6 = 10 marks)

5A. Define plastics. Mention the application of plastics.

5B. Mention any four types of paints. Explain any two in detail.

(5+5 = 10 marks)

6. Write short notes on any TWO:

6A. Terracotta Blocks

6B. Plywood

6C. Laminated Glass

(5+5 = 10 marks)

