MANIPAL UNIVERSITY

FIRST SEMESTER B. ARCH. DEGREE EXAMINATION – FEBRUARY 2016

SUBJECT: ARC 107 – BUILDING MATERIALS
(2014 SCHEME)

Monday, February 15, 2016

Time: 10:00 – 13:00 Hrs.   Max. Marks: 50

✍ **Answer any FIVE questions.**
✍ **Supplement with sketches wherever necessary.**

1A. What are the advantages of timber construction?

(5 marks)

1B. Briefly explain any two artificial methods of seasoning of timber?

(2½+2½ = 5 marks)

2A. Briefly explain the manufacturing process of cement.

(5marks)

2B. What are the properties and uses of lime?

(2½+2½ = 5 marks)

3A. What are the causes for deterioration of the stones? What are the uses of stones in building construction?

(2½+2½ = 5 marks)

3B. List down the classification of rocks. Explain the physical properties and chemical composition of rocks.

(1+2+2 = 5 marks)

4A. What are refractory materials? Explain their classification along with uses.

(1+2+2 = 5 marks)

4B. What are the constituents (composition) of glass?

(5 marks)

5A. What are FRPs? What are the advantages and disadvantages of FRPs?

(1+2+2 = 5 marks)

5B. Write about PVCs and their advantages and disadvantages.

(1+2+2 = 5 marks)

6A. What are the properties and uses of Cast Iron and Pig Iron?

(2½+2½ = 5 marks)

6B. What are the properties and forms of aluminum?

(2½+2½ = 5 marks)