Reg. No.	

MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER B. ARCH. DEGREE EXAMINATION - NOVEMBER 2018

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

Wednesday, November 07, 2018

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 do you understand by Quarrying of Stone? What are the criteria for selection of a quarry site?
- 1B. What is seasoning of timber? Describe its objectives.

(5+5 = 10 marks)

- 2A. Explain the uses of Steel in a Building.
- 2B. Explain three types of Clay roof tiles with sketches.

(4+6 = 10 marks)

- 3A. Specify and discuss briefly any five methods of preservation of timber.
- 3B. What are Alloys? Explain any two alloys with example.

(5+5 = 10 marks)

- 4A. What are the constituents of glass? Explain the use of glass in building Industry.
- 4B. How can clay composition affect brick quality?

(6+4 = 10 marks)

- 5A. What is the importance of grading the concrete?
- 5B. Mention the uses of any TWO of the following:
 - i) PVC
- ii) FRP
- iii) Rubber

(5+5 = 10 marks)

- 6A. What is a Varnish? Explain any two types of varnish in detail.
- 6B. Attempt any TWO of the following:
 - i) Requirements for the usable sand as building material.
 - ii) What are the three types of sand?
 - iii) Brief out the different applications of sand.

(5+5 = 10 marks)