

MANIPAL UNIVERSITY

THIRD SEMESTER B. A. (ID) DEGREE EXAMINATION – FEBRUARY 2016

SUBJECT: BID 203 – BUILDING CONSTRUCTION AND MATERIALS III
(2013 AND 2014 SCHEME)

Tuesday, February 16, 2016

Time: 10:00 – 14:00 Hrs.

Max. Marks: 50

- ✍ Q1 is compulsory.
✍ Attempt any TWO out of Q 2, 3 and 4.
✍ Support your answer with neat sketches.

1. Design an open well staircase for a floor to floor height of 3m.
Draft the plan, section and 3 crucial details.

(20 marks)

- 2A. A flooring has to be made for a study room of size 3m × 4m.
Sketches plan and section showing the necessary details.

- 2B. Explain with the help of sketches the step by step process of installing false ceiling.

(10+5 = 15 marks)

- 3A. Write short notes on any five of the following:

- i) Tiles ii) Wrought Iron iii) Aluminium
iv) Zinc v) Grout vi) Cast Iron

(2 marks × 5 = 10 marks)

- 3B. Write short notes on thermosetting and thermoplastic polymers.

(5 marks)

- 4A. Enlist the types of steel sections available in the market? Discuss their sizes, and application in construction.

- 4B. What do you understand by nosing? Sketch the nosing details for a staircase.

(10+5 = 15 marks)

