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MANIPAL UNIVERSITY

THIRD SEMESTER B. A. (ID) DEGREE EXAMINATION – NOVEMBER 2015 SUBJECT: BID 203 – BUILDING CONSTRUCTION AND MATERIALS III

(2013 AND 2014 SCHEME)

Monday, November 16, 2015

Time: 14:00 - 18:00 Hrs.

Max. Marks: 50

- Attempt any TWO out of Q 2, 3 and 4.
- Support your answer with neat sketches.
- 1. For a classroom of room of size $4m \times 5m$ design the false ceiling. Draft the:-
- 1A. Plan with furniture layout
- 1B. Reflected Ceiling Plan with lighting fixtures
- 1C. Section(s)-
- 1D. At least three crucial joinery details

(4+6+4+6 = 20 marks)

- 2A. Design a dogleg staircase for a floor to floor height of 3m showing all the necessary details with sketches.
- 2B. Write the step by step process of laying flooring tiles.

(10+5 = 15 marks)

- 3A. Write short notes on any FIVE of the following:
 - i) Aluminium
 - ii) Steel Sections
 - iii) PVC
 - iv) Chrome Steel
 - v) Bakelite
 - vi) Tiles

 $(2 \text{ marks} \times 5 = 10 \text{ marks})$

3B. What are different types of corrugated sheets available in the market? Discuss their properties and application.

(5 marks)

- 4A. What are polymers? Mention different types of polymers, their properties and uses.
- 4B. Draw the footing details of a column of cross section 450mm×300mm.

(10+5 = 15 marks)

