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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B. DES. (ID) DEGREE EXAMINATION – NOVEMBER 2019

SUBJECT: BID 203 – BUILDING CONSTRUCTION AND MATERIALS – III
(2015 SCHEME)

Wednesday, November 20, 2019

Time: 10:00 – 14:00 Hrs.

Max. Marks: 50

- ✍ Question Number 1 is Compulsory.
- ✍ Attempt any THREE out of Question number 2, 3, 4 & 5.
- ✍ Illustrate with neat sketches and examples wherever required.

1. Design a false ceiling for a retail store measuring (5×4) m. The following drawings should be clearly detailed to a suitable scale.
 - 1A. Reflected ceiling plan with light fixtures and aesthetic features
 - 1B. Plan with furniture layout
 - 1C. Sections
 - 1D. Three fixing details

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

2. What are the differences between the following? Select any FIVE.

- 2A. Staircase tread and riser
- 2B. Hand rail and balustrade
- 2C. Ceramic tile and Vitrified tile
- 2D. Framed and Load bearing structure
- 2E. Skirting and Nosing
- 2F. Flooring Tile and Cladding Tile

(2 marks × 5 = 10 marks)

- 3A. List out the various types of steel sections that are available in the market.
- 3B. Discuss in detail their sizes, properties and application in construction.

(5+5 = 10 marks)

4. Sketch the following details for a spiral staircase for a room height of 3.6m clear.

- a) Plan b) Sectional Elevation c) Handrail with balustrade

(4+3+3 = 10 marks)

5. Write a brief note on the following and their application in the interior design.

- a) Lead b) Cast Iron c) Asbestos d) Copper

(2½ marks × 4 = 10 marks)

