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MANIPAL ACADEMY OF HIGHER EDUCATION

THIRD SEMESTER B. DES. (ID) DEGREE EXAMINATION – NOVEMBER 2018

SUBJECT: BID 203 – BUILDING CONSTRUCTION AND MATERIALS – III

Saturday, November 03, 2018

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.

1. Design a R.C.C dog legged Staircase for a floor to floor height of 3000mm.

Draft the following:

- 1A. Plan –Scale-1:20
1B. Section(S)- Scale-1:20
1C. Any 2 Details-Scale: 1:5

(8+6+6 = 20 marks)

2. Write a short note on any FIVE of the following:

- | | | |
|--------------------|-------------|-------------|
| a) Stainless Steel | b) Copper | c) Zinc |
| d) Lead | e) Aluminum | f) Asbestos |

(2 marks × 5 = 10 marks)

3. Explain with sketches:

- 3A. Grid tile Ceiling
3B. Gypsum board Ceiling

(5 marks × 2 = 10 marks)

4. List any five commonly used flooring material along with brief description of their properties.
(10 marks)

5. Sketch the following with proper Nomenclature (Any FOUR):

- | | | |
|-----------------------|-----------------|----------------|
| a) Framed joist floor | b) Sleeper wall | c) Going & Run |
| d) Jack arch flooring | e) Cogged Joint | |

(2½ marks × 4 = 10 marks)

