Second Year B. A. (I.D.) (Sem. IV) (CBCS) Examination
April / May - 2018
Construction – IV

Time : **2** Hours]   [Total Marks : **50**

Instructions : (1)   All questions are compulsory.

(2)   Any ambiguity will be considered as a wrong answer.

1   Fill In The Blancks :   **10**

(1)   _____ is a portion of stair which permits ascent or descent.

(2)   _____ is the upper horizontal portion of a step upon which the foot is placed while ascending or descending.

(3)   _____ is the vertical portion of a step providing a support to the tread.

(4)   _____ is the vertical distance between two successive tread faces.

(5)   _____ is the horizontal distance between two successive riser faces.

(6)   _____ is the underside of a stair.

(7)   _____ is a vertical member which is placed at the ends of flights to connect the ends of strings and hand rail.

(8)   _____ is the total length of stairs in a horizontal plane, including landings.

(9)   _____ is defined as an unbroken series of steps between landings.

(10)   _____ is a rounded or molded member of wood or metal following generally the contour of the nosing line, and fixed on the top of balusters.

2   Write Short Notes On Following : (Any **Two**)   **10**

(1)   Types of stairs

(2)   Types of mezzanine floors

(3)   The terms of stairs

3   Design Problem - Staircase :   15

Design a staircase for a residential building in which the vertical distance between floors is 3.36 Meter. The size of the clear stair hall is limited to 4.5 x 3 Meter. Do not use RCC for structural use.

4   Design Problem - Mezzanine :   15

Design a mezzanine floor for a hardware showroom. The size of the floor is 4.5 × 4 Meter and it is surround with 3 side wall, provide 3 × 1 Meter area/cutout for stair. Do not use RCC for structural use.

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