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FIFTH SEMESTER B.TECH. (ENGINEERING) [14 SCHEME] DEGREE EXAMINATION, NOVEMBER 2016

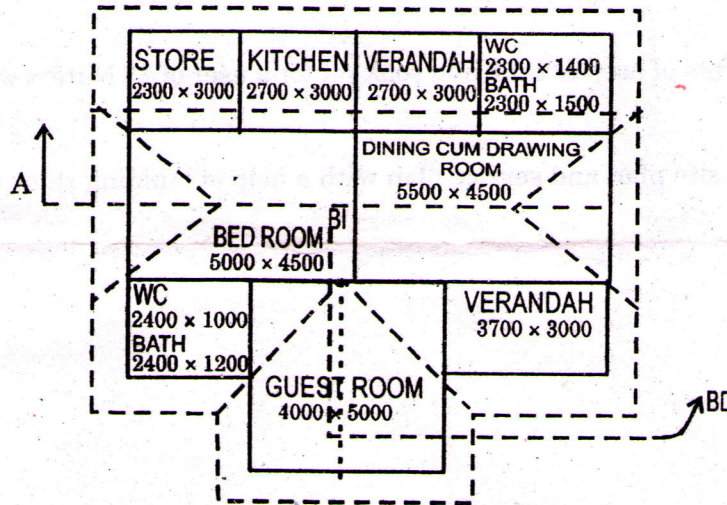## CE 14 507 (D)—CIVIL ENGINEERING DRAWING—II

Time : Three Hours

Maximum : 100 Marks

Part A

Compulsory :

1. (A) With a given specifications and line sketch of a residential building with inclined roof draw to a suitable seal (1 : 50) the following views : (i) Plan ; (ii) Elevation ; (iii) Section at ABCD

Foundation and plinth : Provide suitable foundation and plinth.

Flooring : Suitable flooring will be provided.

Super structure : All main walls will be 300 mm. thick.

Thickness of cross wall will be 200 mm. and partition wall between bath and wall will be 100 mm. thick. The height of main wall is 4500 mm. The height of walls overs the various room will be taken to suit the slope the roof. The roofing will be of GI sheets supported 50 mm. × 100 mm. The reepers @ 300 CTC in turn will be supported over 50 mm. × 120 mm. common rafters @ 600c/c. The ridges over the bed rooms and siting rooms will be at the same level. The roof over front verandah and front we and bath will be having lean to roof. Roofing details of which may suitably be assumed. The slope of roof will be 30° with horizontal. The eaves projection will be 450 mm. beyond the outer face of walls.

(3 × 15 = 45 marks)

Turn over

(B) Doors and windows of suitable sings should be placed at proper places. Any missing data may suitably be assumed. What are the points to be kept in mind for planning residential building.

(10 marks)

(C) Illustrate with neat sketches the three types of roof trusses commonly adopted for factory building.

(15 marks)

Part B

Answer any two out of three.

2. What are the series provide for a multistoried building of two stories ?

   Give the drawing not to scale for such series.

(15 marks)

3. Give the components of aseptic tank and soak pit for a user of 25 Nuters with a help of a drawing.

(15 marks)

4. How to prepare a site plan and service plan with a help of building rules and codes.

(15 marks)

[2 × 15 = 30 marks]