

Q.P. Code : 539201

(Revise Course)

(4 Hours)

[Total Marks : 80

- N.B.:** (1) Question No.1 is **compulsory**.
 (2) Attempt **any Three** out of the remaining **Five** questions.
 (3) **Figures** to the **right** indicate **full marks**.
 (4) Assume any suitable **data** and **clearly** state the **same**.

1. What are the basic units / rooms for a luxurious bungalow? 2
 Assuming the standard dimensions for rooms, plan a luxurious bungalow for a celebrity to be constructed on plot of size 20 m X 30 m (G+1, Load Bearing structure).
 Provide verandah, staircase, passage and sanitary units as per bye laws.
 (i) Draw the Ground Floor Plan 13
 (ii) Draw the line plan of 1st floor. 5
2. (a) Draw the cross section passing through staircase, bath, WC of building drawn in Q.No.01. 15
 (b) Define Carpet area and Built up area. Prepare the total area statement (Carpet area and Built up area) of building drawn in Q.No.01. 5
3. (a) Draw the foundation plan with dimensions for the building drawn in Q.No.01. 10
 (b) Suggest the type of pitched roof for a factory of clear size 8m X 20m. 10
 Draw the plan and section of the same showing all details.
4. (a) Enlist the principles of planning. Explain with example, the 'Principles of Grouping' used in planning of a residential building. 10
 (b) Draw the site layout plan for building drawn in Q.No.01 clearly indicating various services, open spaces etc. 10
5. (a) Explain with the help of sketches and suitability, Load bearing structure, framed structure and composite structure. 7
 (b) Define door. Draw the plan, elevation and section of the half paneled and half glazed door. Assume the door size as 1.2m x 2.1m. 7
 Explain carpet area, built up area and FAR. 6

TURN OVER

Q.P. Code : 539201

2

6. Write short notes on the followings (**any Four**) :

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- (a) Types of staircase with suitability
 - (b) Wind rose (circulation) diagram
 - (c) Building line and Control line
 - (d) Sun shading devices
 - (e) Development control rules
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