

NOTE:

- v) Question No. 1 is compulsory.
- vi) Attempt any three out of the remaining five questions.
- vii) Figure to the right indicates full marks
- viii) Assume any suitable data and clearly state the same.

- Q.1 It is proposed to construct a RCC Framed structure Bungalow (single storey) with the following area requirements.
 Drawing Hall = 20 m², Master Bed Room = 20 m², Children's Bed Room = 15 m², Guest Room = 15 m², Kitchen and Dining Room = 20 m².
 Provide verandah, passage sanitary units etc. as per bye laws.
- i) Draw the Floor plan 14
 - ii) Draw the Front elevation 06
- Q.2 A) Draw the cross section passing through staircase, bath, WC of building drawn in Q. no.01 15
 B) Draw the site layout plan for building drawn in Q. no. 01 clearly indicating various services, open spaces etc. 05
- Q.3 A) Draw the foundation plan with dimensions for the building drawn in Q no. 01. Also draw the section of one footing. 10
 B) Suggest the type of pitched roof for a factory of size 8 m x 20 m. Draw the plan and section of the same showing all details with dimensions. 10
- Q.4 A) Enlist the 'principles of planning' used in planning of a residential building. Explain with sketches any two in detail. 10
 B) Explain the zoning regulation and Building bye laws in detail. 10
- Q.5 A) Compare the Load bearing with framed RCC structure. 07
 B) Draw the plan, elevation and section of the half paneled and half glazed door. Assume the door size as 1.2m x 2.1m. 07
 C) Explain carpet area, built up area and FSF. 06
- Q.6 Write short notes on the followings (any four)
- i). Development control rules, ii). Wind rose (circulation) diagram. 20
 - iii). Functional planning of a residential building, iv). Sun shading devices,
 - v). Set back distance