

(DCE 222)

B.Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the End of Second Year)

CIVIL ENGINEERING

Paper - II : Building Drawing

Time : 3 Hours

Maximum Marks : 75

Answer ONE question from each unit

UNIT – I

- 1) Explain the following as applicable to residential building. (20)
- a) Flexibility
 - b) Illumination
 - c) Orientation
 - d) Privacy

OR

- 2) a) Write a note on building regulations. (10)
- b) Write a short notes on Building bye-laws. (10)

UNIT – II

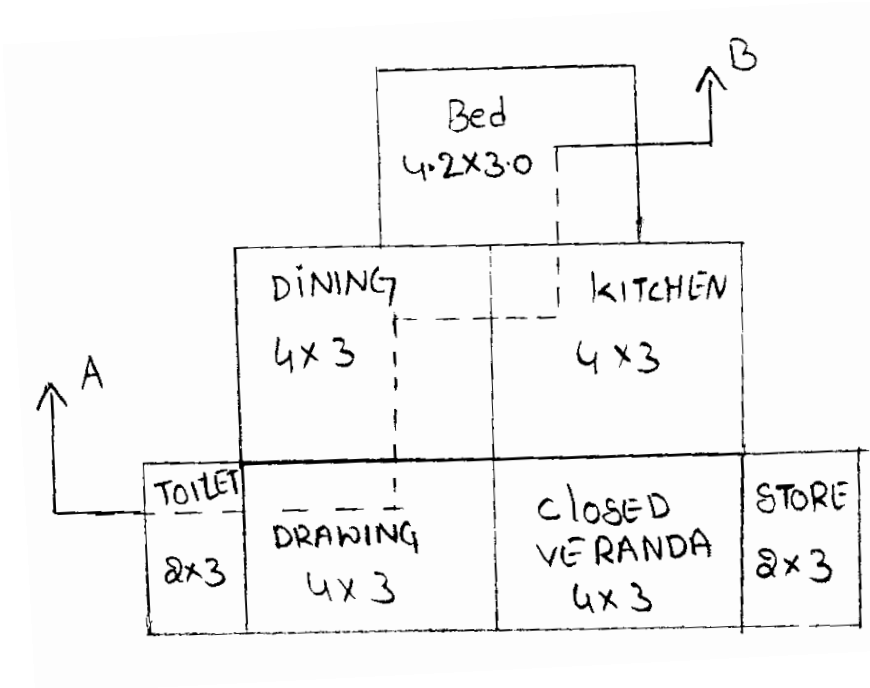
- 3) a) Give the classification of buildings as per NBC. (10)
- b) Give the plan and elevation of a dog – Legged Stair. (10)

OR

- 4) a) Draw conventional signs for (10)
- i) Rock
 - ii) Ceramic Tiles
 - iii) Concrete
 - iv) Glass
- b) What are the requirements of a good stair? (10)

UNIT - III

- 5) The line diagram (of clear inner dimensions) for a residential building is as follows. (35)



(All Dimensions are in meters)

All walls of superstructure are 200 mm thick

Good soil for foundation is available at a depth of 1200 cm.

Assume all other data Draw.

- A neat dimensional plan.
- Section of AB.

OR

6) A residential building is to be planned for a practising advocate with the following requirements. (35)

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|-----------------------------|---------------------------------|
| a) Living cum drawing hall. | b) Master bed room with toilet. |
| c) Second bed room. | d) Kitchen and store. |
| e) Additional bath and W.C. | f) Staircase and pooja. |

The dimensions of the site are 15m x 20m and the road is on western side parallel to 15m side. Plinth area is not to exceed 125sqm. Adopt moderate specifications. Draw to a scale of 1 : 50.

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|--------------------------|----------------------|
| i) Site plan | ii) Plan |
| iii) Sectional elevation | iv) Front elevation. |

