

Code: R7220102

R07

B.Tech II Year II Semester (R07) Supplementary Examinations, April/May 2013

BUILDING PLANNING AND DRAWING

(Civil Engineering)

Time: 3 hours

Max. Marks: 80

PART - A

(Answer any three questions, 3 X 16 marks)

- 1 (a) Write short notes on floor area ratio. How it is related to height of the building? Explain and differentiate floor area ratio with carpet area.
(b) Write short notes on:
 - (i) Building bye-laws for frontage and open space in residential buildings.
 - (ii) Building bye-laws for size of rooms and ventilation in hostels.
- 2 (a) Differentiate between the following:
 - (i) Auditorium and Foyer
 - (ii) Dispensary and Clinic
 - (iii) Hotel and Motel
(b) List out and detail the facilities to be provided in the layout of a hospital.
- 3 (a) Give the classification of buildings as per national building code (NBC) and explain.
(b) Describe the important departments and facilities to be provided in the layout of educational institutions.
- 4 (a) Define the following:
 - (i) Arrow
 - (ii) Interfering float
 - (iii) Optimum time estimate
(b) What is meant by bar chart and what are the limitations of a bar chart. Explain with an example.
- 5 (a) Draw the conventional signs of:
 - (i) Door
 - (ii) Glass
 - (iii) Earth
 - (iv) W.C
(b) Draw the isometric view of a right angle junction of a one and half brick wall in Flemish bond, showing at least four consecutive layers.

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PART - B

(Answer any one question, 1 X 32 marks)

- 6 (a) Draw the front elevation and sectional plan of a half glazed paneled door with swing ventilator to fit in an opening of 1200mm X 2100mm and label the parts.
- (b) Draw the front elevation and sectional plan of a half glazed paneled door to fit in an opening of 1000mm X 1900mm and label the parts.
- 7 Draw the plan of a bank building showing the following requirements to scale following bye-laws and specify the dimensions of each element in a tabular form.
- (i) Managers room
 - (ii) Meeting hall
 - (iii) Safe deposit locker and strong room
 - (iv) Records room
 - (v) Store room
 - (vi) Working space
 - (vii) Public space with counter
 - (viii) Toilets
 - (ix) Recreation room
 - (x) Fire safety unit
 - (xi) Guard room
 - (xii) A.T.M
 - (xiii) Drinking water unit
