

Code: 9A01405**1**

B.Tech II Year II Semester (R09) Regular & Supplementary Examinations, April/May 2013

BUILDING PLANNING & DRAWING

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Part - A

(Answer any three questions, 3 X 14 = 42 M)

1. (a) Write short notes on carpet area ratio. Explain and differentiate carpet area ratio with floor area ratio.
(b) Write short notes on:-
 - (i) Building bye-laws for frontage and open space in school buildings.
 - (ii) Building bye-laws for size of room and ventilation in banks.
2. (a) Describe the various types of buildings.
(b) Explain C.B.R.I recommendations for obtaining optimum orientation of a building.
3. Explain in detail about the facilities to be provided in the layout of a bank.
4. (a) Explain the stages of a construction project.
(b) Explain the salient features of CPM.
5. Explain the factors to be considered for site selection of a residential building.

Part - B

(Answer any one question, 1 X 28 = 28 M)

6. (a) Draw the front elevation and sectional plan of a paneled door to fit in an opening of 1200 mm x 2100 mm and label the parts.
(b) Draw to a suitable scale the front elevation of a queen post truss indicating all details for a clear opening of 7000 mm.
7. Draw the plan and elevation of a hotel building with the help of the data given below to a scale of 1:50.
 - (i) Entrance foyer-1.
 - (ii) Reception room-1.
 - (iii) Public rooms -2.
 - (iv) Bed room with bath cum W.C-10.
 - (v) Kitchen -1.
 - (vi) Sanitary units-2.
 - (vii) Store room -1.
 - (viii) Recreation units-2.

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Part - A

(Answer any three questions, 3 X 14 = 42 M)

1. (a) Explain the building bye-laws with reference to
 - (i) Set back line
 - (ii) Carpet area regulations.
 - (iii) Illumination.(b) Explain in detail on applicability of the bye-laws.
2. What are the different types of rooms in residential building? Explain their requirements.
3. Explain in detail about the facilities to be provided in the layout of a hotel.
4. (a) Explain the functions of the management.
(b) What are the measures to be adopted by an engineer to attain economy? Explain.
5. (a) Describe the various types of industrial buildings.
(b) What are the factors to be considered in selection of site for industries?

Part - B

(Answer any one question, 1 X 28 = 28 M)

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

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Part - A

(Answer any three questions, 3 X 14 = 42 M)

1. Explain the classification of building based on occupancy and types of construction.
2. What are the different types of rooms in school building? Explain their requirements.
3. Explain in detail about the facilities to be provided in the layout of a recreational park.
4. (a) Explain the scientific methods of construction management.
(b) What are the measures to be adopted by an contractor to attain economy? Explain.
5. (a) Describe the various types of industrial buildings.
(b) What are the factors to be considered in selection of site for residential building?

Part - B

(Answer any one question, 1 X 28 = 28 M)

6. (a) Draw the front elevation and sectional plan of a double paneled door to fit in an opening of 1200 mm x 2100 mm and label the parts.
(b) Draw the front elevation and sectional plan of a single paneled window to fit in an opening of 1000 mm x 800 mm and label the parts.
7. Draw the plan of a educational building showing the following requirements:-
 - (i) Class room – 10
 - (ii) Administrative area -1
 - (iii) Assembly hall- 1
 - (iv) Library -1
 - (v) Laboratories-2
 - (vi) Reading room -2
 - (vii) Toilets -4
 - (viii) Drinking water -4
 - (ix) Stair case rooms-2
 - (x) Staff rooms -2
 - (xi) Waiting halls-1
 - (xii) Canteen-1

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Part - A

(Answer any three questions, 3 X 14 = 42 M)

1. (a) Write short notes on:-
 - (i) F.S.I
 - (ii) F.A.R
- (b) Write short notes on building bye-laws. What are the merits and demerits of building bye-laws?
2. What are the factors affect the planning of a residential building and also explain the precautions to be taken at the time of site selection to residential buildings?
3. (a) Differentiate between the following:
 - (i) Dispensary and Clinic
 - (ii) Hotel and Motel.
 - (iii) Auditorium and Foyer.
- (b) Describe the important departments and facilities to be provided in the layout of a engineering college.
4. (a) What is meant by bar chart? What are the limitations of a bar chart? Explain with an example.
- (b) What are the stages of a construction project and construction management team explain by using flow charts?
5. (a) What are the features of network planning? Why do we use network planning? Explain in detail.
- (b) Explain the characteristics of the directions briefly.

Part - B

(Answer any one question, 1 X 28 = 28 M)

6. (a) Draw to a suitable scale the front elevation of a king post truss indicating all details for a clear opening of 8000 mm.
- (b) Draw the front elevation and sectional plan of a half glazed paneled door to fit in an opening of 1000 mm x 1900 mm and label the parts.
7. Draw the plan section and elevation of a residential building showing the following requirements.
 - (i) Living room – 1.
 - (ii) Dining room -1.
 - (iii) Bed room with bath cum W.C-3.
 - (iv) Kitchen -1.
 - (v) Reading room - 1
 - (vi) Store room – 1.

The plinth area shall not exceed 150 sq m.
