

Code No: RT22011

**R13****SET - 1**

**II B. Tech II Semester Supplementary Examinations, November-2017**  
**BUILDING PLANNING AND DRAWING**  
(Civil Engineering)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)  
2. Answer any **Three** questions in **PART-A**  
3. Answer **One** question from **PART-B**
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**PART-A**

(14 × 3 = 42M)

1. 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.
2. a) Describe the requirements of different rooms and their grouping in residential buildings  
b) What are the minimum standards for various parts of building as per national building code (NBC) and explain?
3. Describe the important departments and facilities to be provided in the layout of a industry
4. What are the stages of a construction project and construction management team explain by using flow charts?
5. a) Differentiate clearly between PERT and CPM network methods  
b) What are the features of network planning? Why do we use network planning? Explain in detail

**PART-B**

(Answer any ONE question on drawing sheet)

(1 × 28 = 28M)

6. Draw to a suitable scale the front elevation of a king post truss indicating all details for a clear opening of 8000 mm.
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) Public space with counter.
  - ii) Manager's room.
  - iii) Meeting hall.
  - iv) Safe deposit locker and strong room.
  - v) Records room.
  - vi) Store room.
  - vii) Working space.
  - viii) Toilets.
  - ix) Recreation room.
  - x) Fire safety unit.
  - xi) Guard room.
  - xii) A.T.M.
  - xiii) Drinking water unit.

