

Code: CE4T5

**II B.Tech - II Semester – Regular Examinations - JUNE 2014**

**BUILDING PLANNING AND DRAWING  
(CIVIL ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

**PART - A**

Answer any THREE questions. All questions carry equal marks. 3 x 14 = 42 M

1. Explain the influence of the following on the various building components of a building with suitable examples.
  - a) Circulation
  - b) Ventilation
  - c) Sanitation
  - d) Cleanliness14 M
  
2. a) What are the principles of building bye laws? How do they effect the planning of a building? 7 M
  
- b) With the help of suitable examples give the requirements of a building with respect to Floor area ratio and Floor space ratio. 7 M

3. With the help of neat sketches give the requirements and dimensions required for the following rooms of a residential building. 14 M  
a) Master Bed Room      b) Studying Room  
c) Living Room
4. Give a detailed planning aspects of the following Public Buildings. 14 M  
a) Hotels      b) Industrial Buildings
5. What is orientation of a building? What are the orientation requirements of the following building? 14 M  
a) Residential buildings  
b) Dispensaries  
c) Educational Institutions

### **PART - B**

Answer any ONE question.

1 x 28 = 28 M

6. Plan a residential building for a plinth area of  $80\text{m}^2$ . The site is located in hot and arid region, rectangular in shape  $10\text{m} \times 9\text{m}$ . Building faces North. The requirements are  
(i) Master bed Room,      (ii) Children bed room  
(iii) Kitchen      (iv) Living cum dinning hall  
(v) Stair case.  
Sketch the plan, sectional elevation passing through stair way and elevation.

7. a) Sketch the plan and elevation of a one brick wall and two brick walls at the junction of a corner.
- b) Sketch the details of a paneled door and a paneled window.