

Code: CE4T5

**II B.Tech - II Semester – Regular / Supplementary Examinations
October - 2020**

**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. a) What do you mean by Byelaws? Explain them in detail along with their objectives and underlying principles. 7 M

b) Classify the buildings based on occupancy and type of construction in detail. 7 M
2. What do you mean by grouping? Explain its significance in the planning of residential buildings. 14 M
3. a) Discuss the factors to be considered in the design of a bank building. 7 M

b) Explain the principle of planning a hospital. 7 M

4. Draw conventional signs for the following materials:
(i) Brick (ii) Concrete (iii) Wood (iv) Stone
(v) Earth (vi) Glass (vii) Steel 14 M
5. Draw the plans of Flemish Bond odd and even courses of one and half brick walls in thickness at the junction of a corner (300mm thickness). 14 M

PART – B

Answer any **ONE** question. 1 x 28 = 28 M

6. Design/Plan a college Canteen building for the following requirements. Draw a line Diagram, plan section and elevation. 28 M
- a) Entrance with foyer with cashier's desk-15 Sq. m.
 - b) Dining Hall of-120 Sq.m
 - c) Kitchen and Pantry -60 Sq.m
 - d) Store-20 Sq.m
 - e) Provision for Xerox Machine -10 Sq.m
 - f) Open space for dining and washing etc.
 - g) Toilets as required.

7. Draw the plan, section and elevation of the given line Diagram.

28 M

