

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2021-COURSE)
B. Tech. Sem - II CIVIL : WINTER- 2022
SUBJECT : CONSTRUCTION DESIGN & DRAWING

Day : Wednesday

Time : 10:00 AM-02:00 PM

Date : 30-11-2022

W-24042-2022

Max. Marks : 60

N.B :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non-programmable **CALCULATOR** is allowed.
- 4) Draw neat and labeled diagram **WHEREVER** necessary.
- 5) Assume suitable data if necessary.

Q.1 Draw to a suitable scale the line plan of a post office for a taluka place with different units. Also, show the positions of doors, windows and dimensions of each room. (10)

OR

Q.1 Draw to a suitable scale the line plan of residential apartment and justify the principles of planning. (10)

Q.2 It is proposed to construct single floor R.C.C. structure hospital building in the suburban area. The plot area is 28 m x 26 m. List down all the units required and draw a detailed ground floor plan. (10)

OR

Q.2 What is the concept of eco building? List down the various eco-friendly materials used in construction. (10)

Q.3 What are the types of ventilation? Elaborate the stack effect and wind effect with neat sketches. (10)

OR

Q.3 What are the effects of noise? State and explain the methods of sound insulation. (10)

Q.4 What is fire load? Explain grading of occupancies by fire load. (10)

OR

Q.4 What are the construction requirements for circulation in a building by lifts and escalators? (10)

Q.5 What is the necessity of town planning? Comment on 'Evolution of town planning in India'. (10)

OR

Q.5 What are the objectives of Development Plan? State and explain contents of Development Plan. (10)

Q.6 What is the role of plan sanctioning authority? List the documents to be submitted along with building plan for sanction from the authority. (10)

OR

Q.6 Explain : (10)
i) 7/12 obstruct
ii) 6-D form

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