

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Regular End Semester Examination – Summer 2022

Course: B. Tech.

Branch : Civil Engineering

Semester : IV

Subject Code & Name: BTCVC401 Building Planning & Drawing

Max Marks: 60

Date: 12/08/2022

Duration: 5 Hrs.

Instructions to the Students:

1. All the questions are compulsory.
2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in ( ) in front of the question.
3. Use of non-programmable scientific calculators is allowed.
4. Assume suitable data wherever necessary and mention it clearly.

- Q.1 Solve Any Two of the following. (Level/CO) Marks
- A) Explain various principles of Building Planning. (CO1) 6
- B) Discuss the criterion affecting building planning under Indian conditions. (CO1) 6
- OR
- A) Draw detailed plan and elevation of residential house. (CO1) 12
- Q.2 Solve Any Two of the following.
- A) Explain concept of anthropometry in detail. (CO1) 6
- B) Draw site plan of a row house project. (CO1) 6
- C) Discuss the process of obtaining occupancy certificate. (CO1) 6
- Q.3 Solve Any Two of the following.
- A) Draw drainage plan of a residential building. (CO2) 6
- B) Draw sectional plan for residential building showing plumbing fixtures and components. (CO2) 6
- C) Discuss Rain water harvesting system in detail. (CO2) 6
- Q.4 Solve Any Two of the following.
- A) Discuss ventilation system and selection criteria. (CO2) 6
- B) Explain principles of air conditioning. (CO2) 6
- C) Discuss methods of Thermal Insulation in buildings. (CO2) 6
- Q.5 Solve Any Two of the following.
- A) Discuss various methods of noise prevention. (CO3) 6
- B) Explain the phenomenon of reverberation and its significance in acoustics. (CO3) 6
- C) Discuss various applications of Green Building. (CO3) 6

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