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Total No. of Pages : 03

Total No. of Questions : 06

**B. Architecture (2012 & Onwards) (Sem.-9)**  
**BUILDING CONSTRUCTION & MATERIALS-VIII**

Subject Code : BACH-902

M.Code : 74096

Time : 4 Hrs.

Max. Marks : 75

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt THREE questions in ALL with at least ONE question from EACH UNIT.
2. Assume the missing data if any and mention that along with answer.

**UNIT-I**

1. Design a commercial kitchen of size 12 Mtrs × 18 Mtrs for a restaurant of 150 person sitting capacity in a commercial area. Draw the layout plans (above counter lvl & below counter lvl) and 2 Nos detailed sections on suitable scale. (25)
2. Draw the working drawing of a residence as given plan (FIG 1&2). The finished floor to floor height is 3.30 mtrs and the type of foundation is stepped foundation. Use suitable scale for drawings :
  - a) Detailed section as marked Y-Y
  - b) Centre line foundation plan (2×12.5=25)
3. a) Draw the working drawing detail of the toilet and dressing area as marked "A" for given plan (FIG 1) on suitable scale. The finished floor to floor height is 3.30 mtrs.  
b) Write short note on Pre-tensioning of a RCC structure. (2×12.5=25)

**UNIT-II**

4. What is the role and function of curtain wall in a commercial building? Explain any three different types of curtain wall construction details along Sketch for a RCC structure. (25)
5. What are the basic principles and objectives of Modular construction? Explain in detail the role of modular construction and standardization in reduction of cost of the project with examples. (25)
6. Write the short notes on any two of the following with constructional details :
  - a) Elevators
  - b) Escalators
  - c) Refuse Chutes (2×12.5=25)

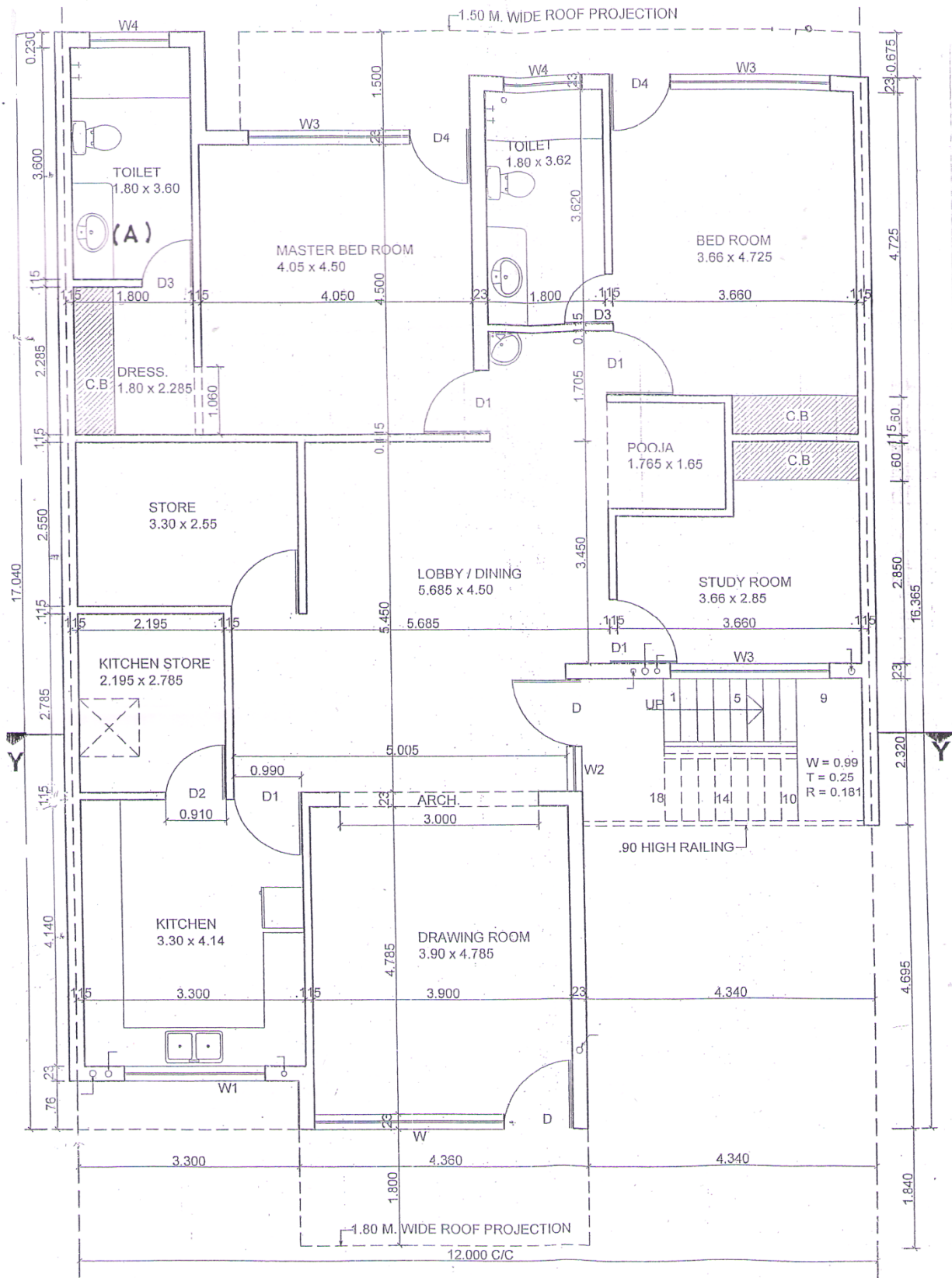


FIG. 1

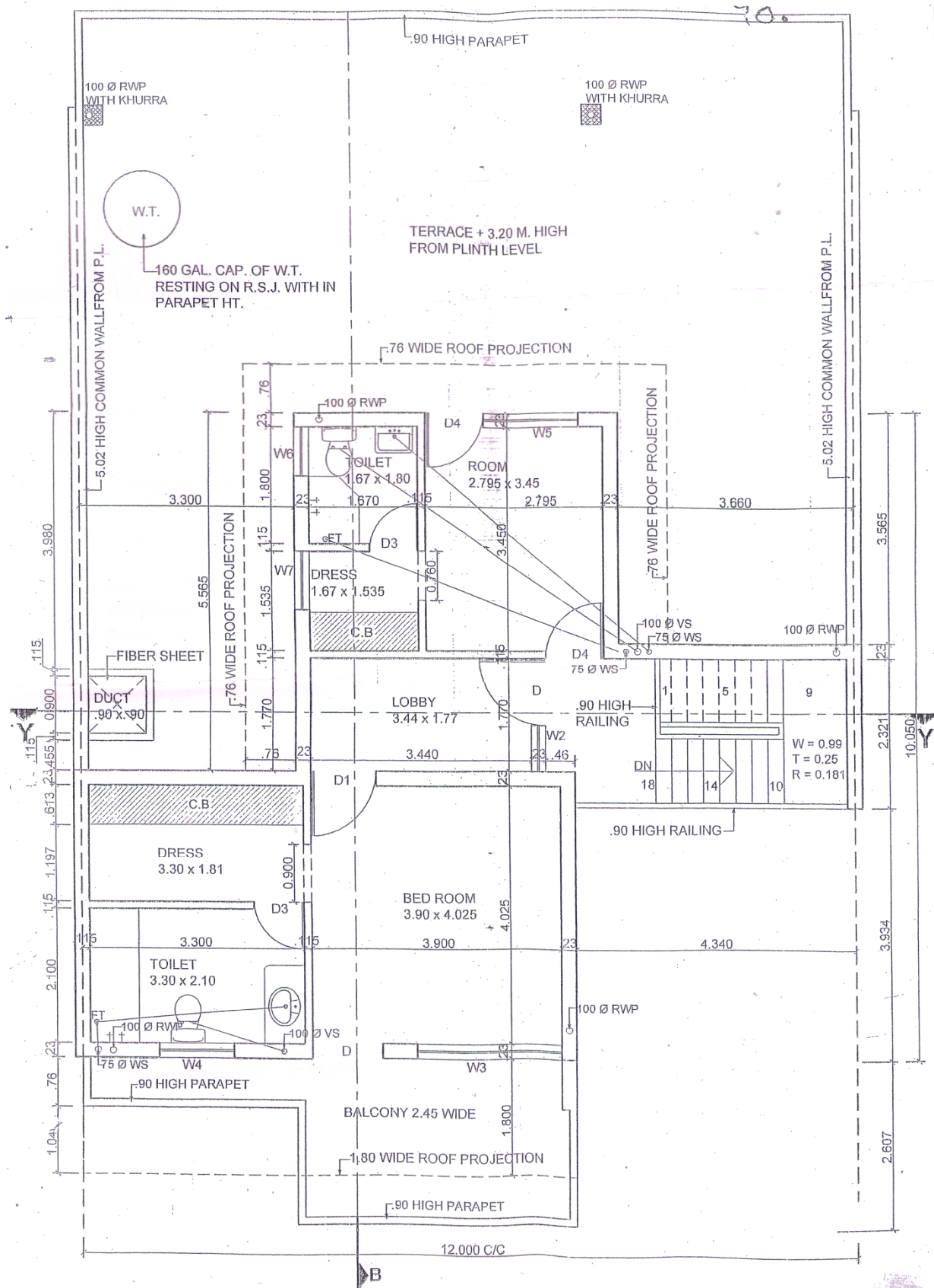


FIG. 2

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**