

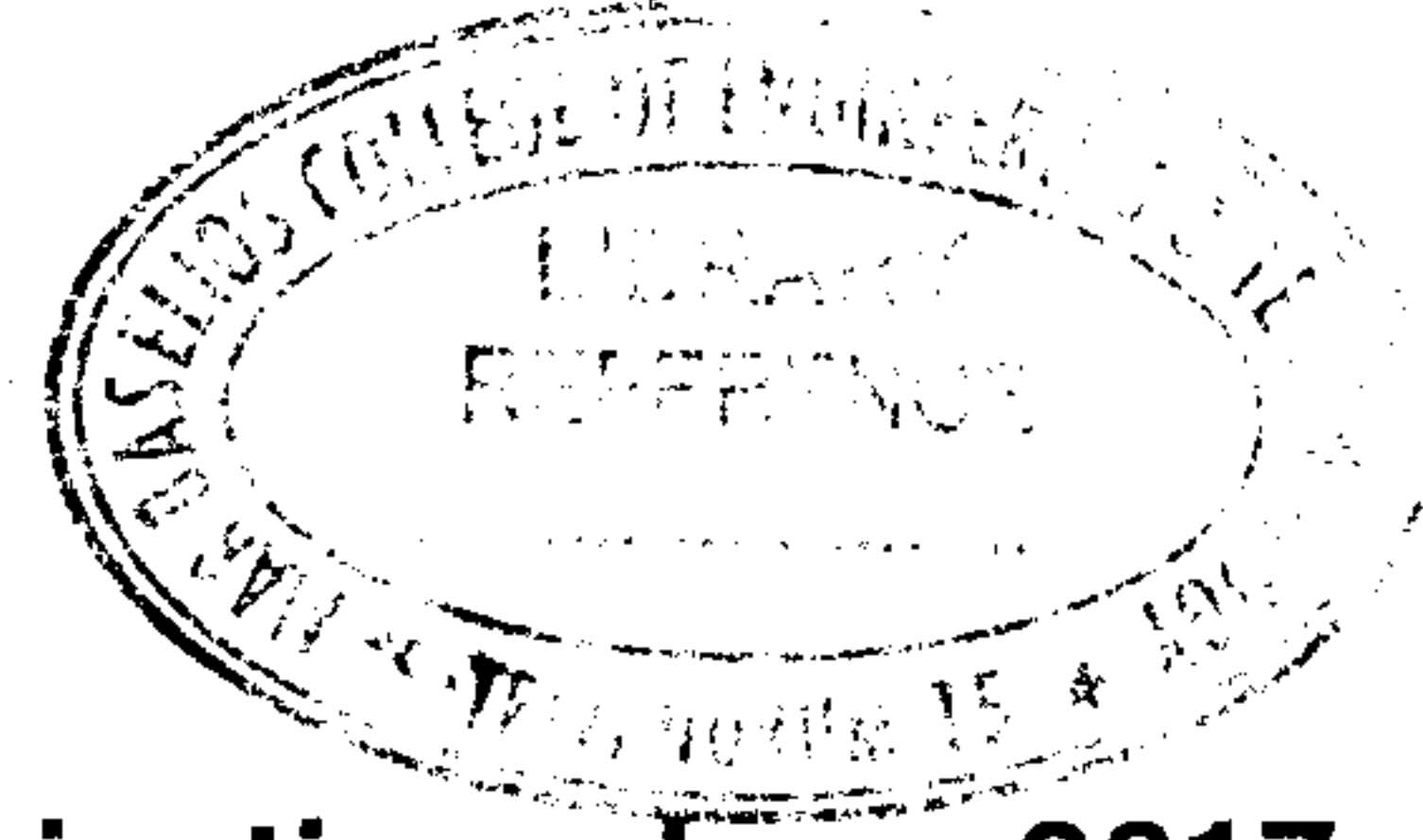


(Pages : 3)

B – 6068

Reg. No. :

Name :



**Fourth Semester B.Tech. Degree Examination, June 2017
(2008 Scheme)**

08.406 : BUILDING PLANNING AND DRAWING (C)

Time : 3 Hours

Max. Marks : 100

- Instructions:** 1) Answer **all** questions in Part – **A** (**compulsory**).
2) Answer **any one** question in **full** from Part – **B**.
3) Answer Part – **A** in answer book and Part – **B** in the drawing sheet supplied.

PART – A

1. Write a note on building bye-laws.
2. Define the following :
 - i) Plinth area
 - ii) Carpet area
 - iii) Covered area ratio
 - iv) Floor area ratio.
3. Explain how the storage capacity of the rain water harvesting system is computed as per norms.
4. Differentiate between slab culvert and box culvert. **(4×5=20 Marks)**

PART – B

5. Figure 1 shows the line plan of a residence.

Prepare a set of working drawings consisting of a plan, a section on AA and a front elevation with the following specifications.

Specifications : The foundation and basement are of R. R. masonry in CM 1 : 6 and pointed with CM 1 : 4. The foundation is 60 cm wide and 90 cm deep footing.

P.T.O.



The basement has a height of 45 cm and width of 45 cm. The superstructure is of laterite blocks 23 cm thick laid in CM.1 : 6 plastered both sides in CM 1 : 5. Provide suitable lintels, sunshades and beams wherever necessary. The roof is of R.C.C. 10 cm thick slab with a clear head room of 300 cm.

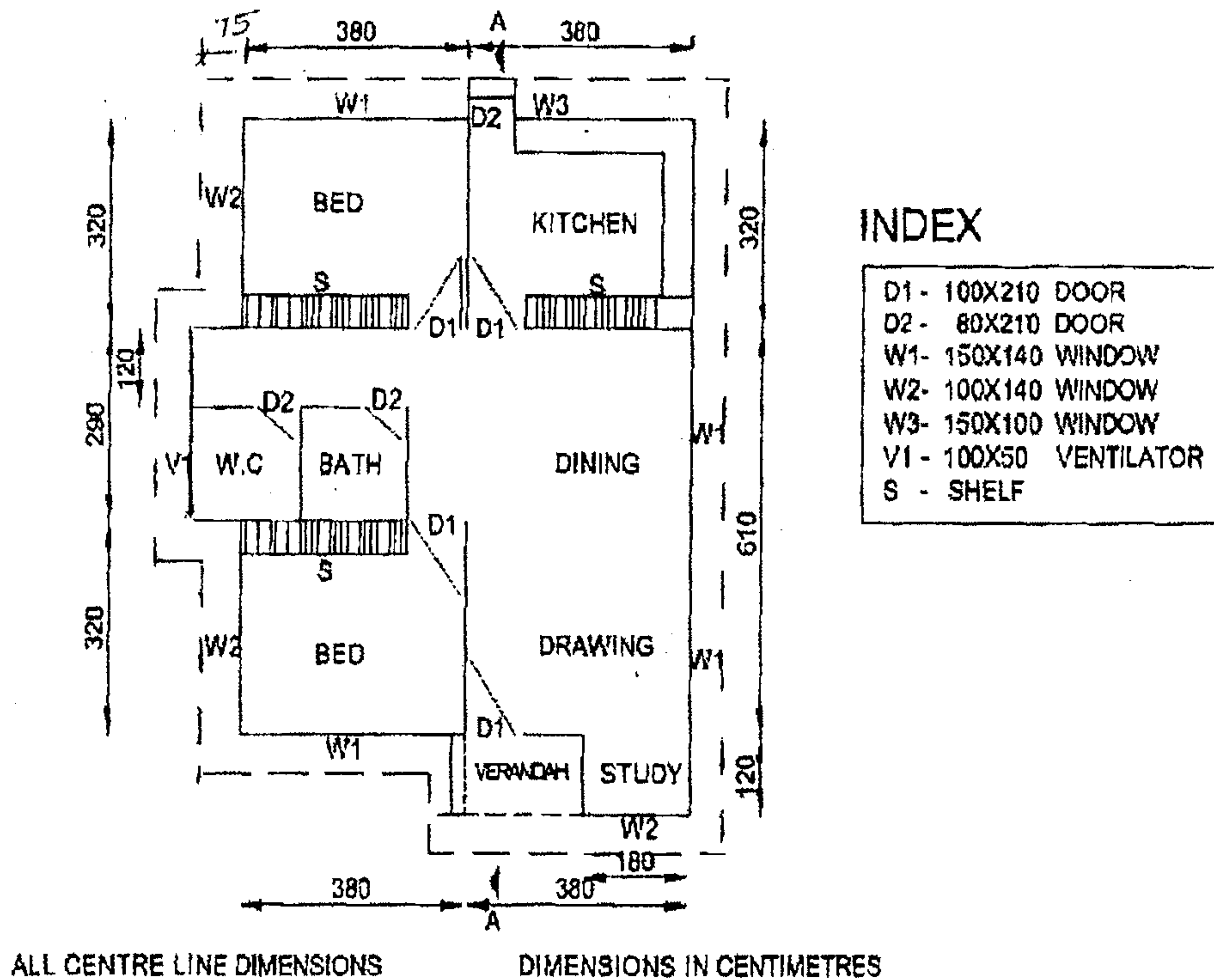


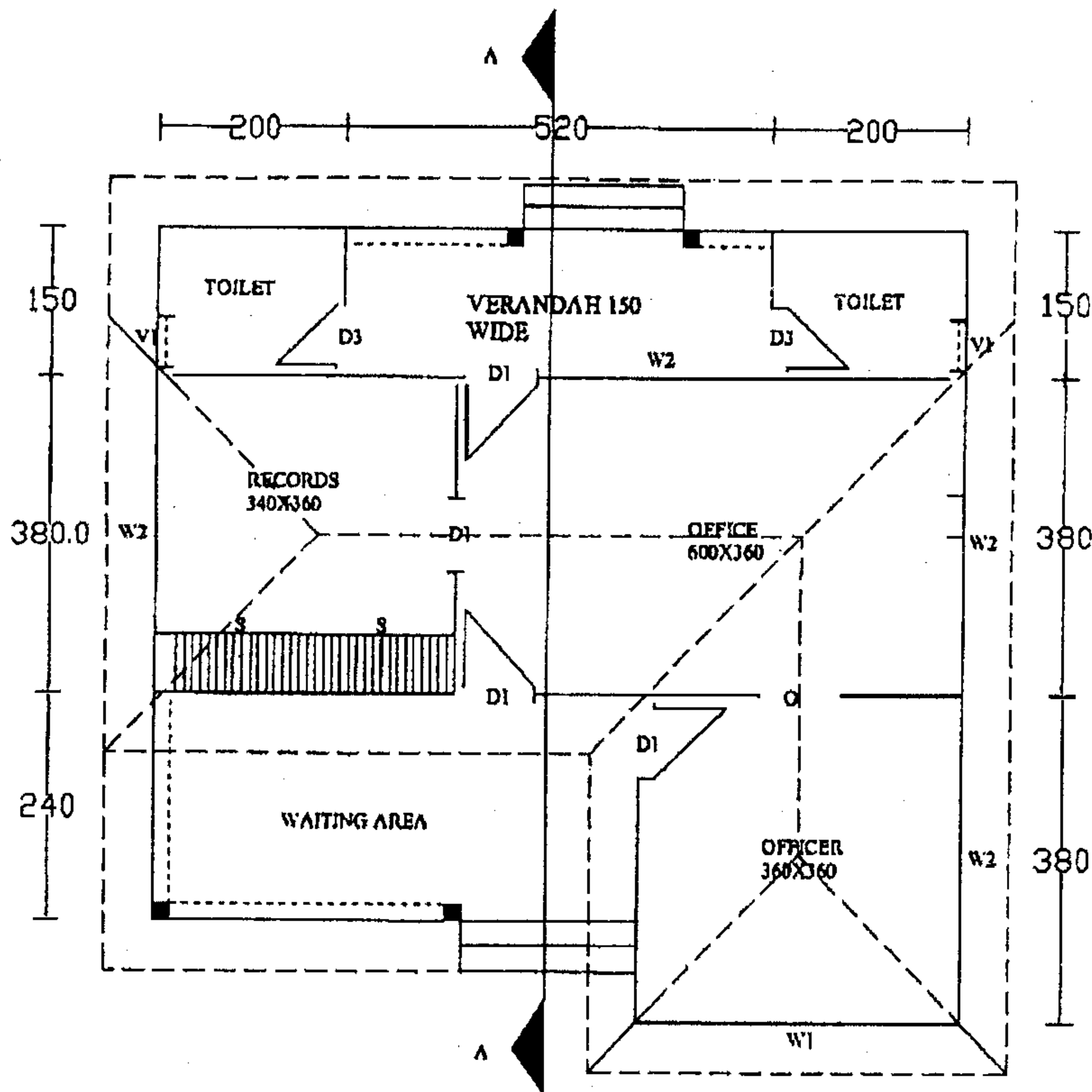
Figure 1

6. A line sketch showing the inside dimensions of an office building is given in Figure 2. All dimensions are inside measurements. Prepare a set of working drawings consisting of a plan, a section and a front elevation to the following specifications.

Specifications : The foundation consists of R. R. masonry in CM 1 : 6. Width of foundation is 60 cm and depth 80 cm and is built over P.C.C. 1 : 4 : 8, 10 cm thick. The basement is 45 cm wide and 45 cm thick. Walls are of brick in CM 1 : 5, 20 cm thick, plastered both inside and outside with CM 1 : 5. The rear verandah has brick pillars of 20 cm x 20 cm size, supporting bressumers of size 9 cm x 12.5 cm. The roof is sloping with rise of 1 in 3. The main walls have heights of 360 cm above floor level. The roof frame consists of wall plates, hip



and valley rafters, ridges and rafters. Roofing is of Mangalore Pattern (M.P.) tiles. The eaves projection is 75 cm. The front verandah has a RCC flat roof 10 cm thick, supported on walls, columns and beams.



ALL DIMENSIONS ARE IN CM

Figure 2

