Reg. No. : .....

Name : .....

(Pages : 4)

A – 6329

Third Semester B.Tech. Degree Examination, October 2016
(2008 Scheme)
08.306 : ENGINEERING DRAWING (MPU)

Time : 4 Hours Max. Marks : 100

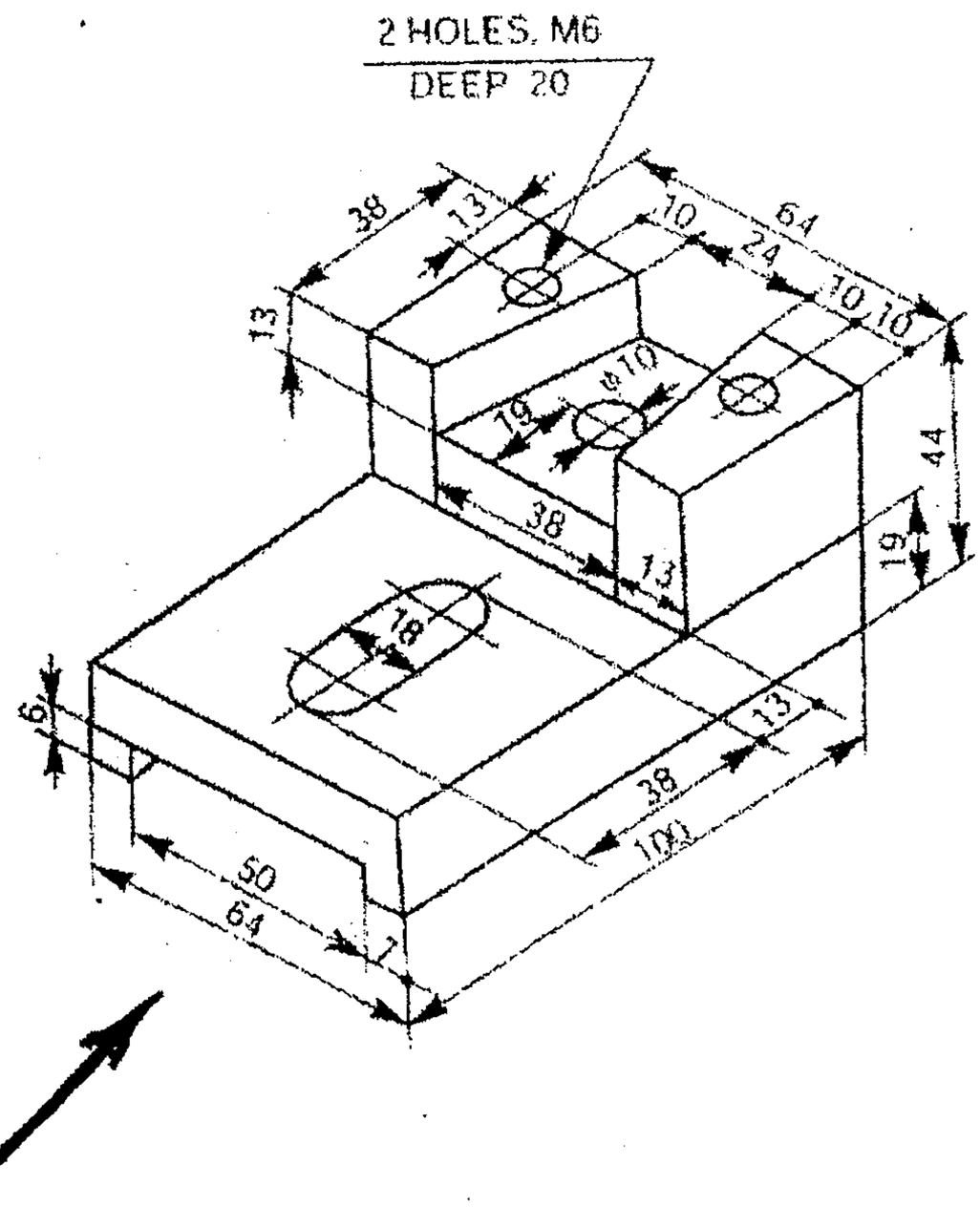
PART – A

Machine Drawing

Time : 2 Hours Marks : 50

1. Answer **any two** questions : **(2×10=20 Marks)**

   i) Draw the plan and elevation of the component given below :

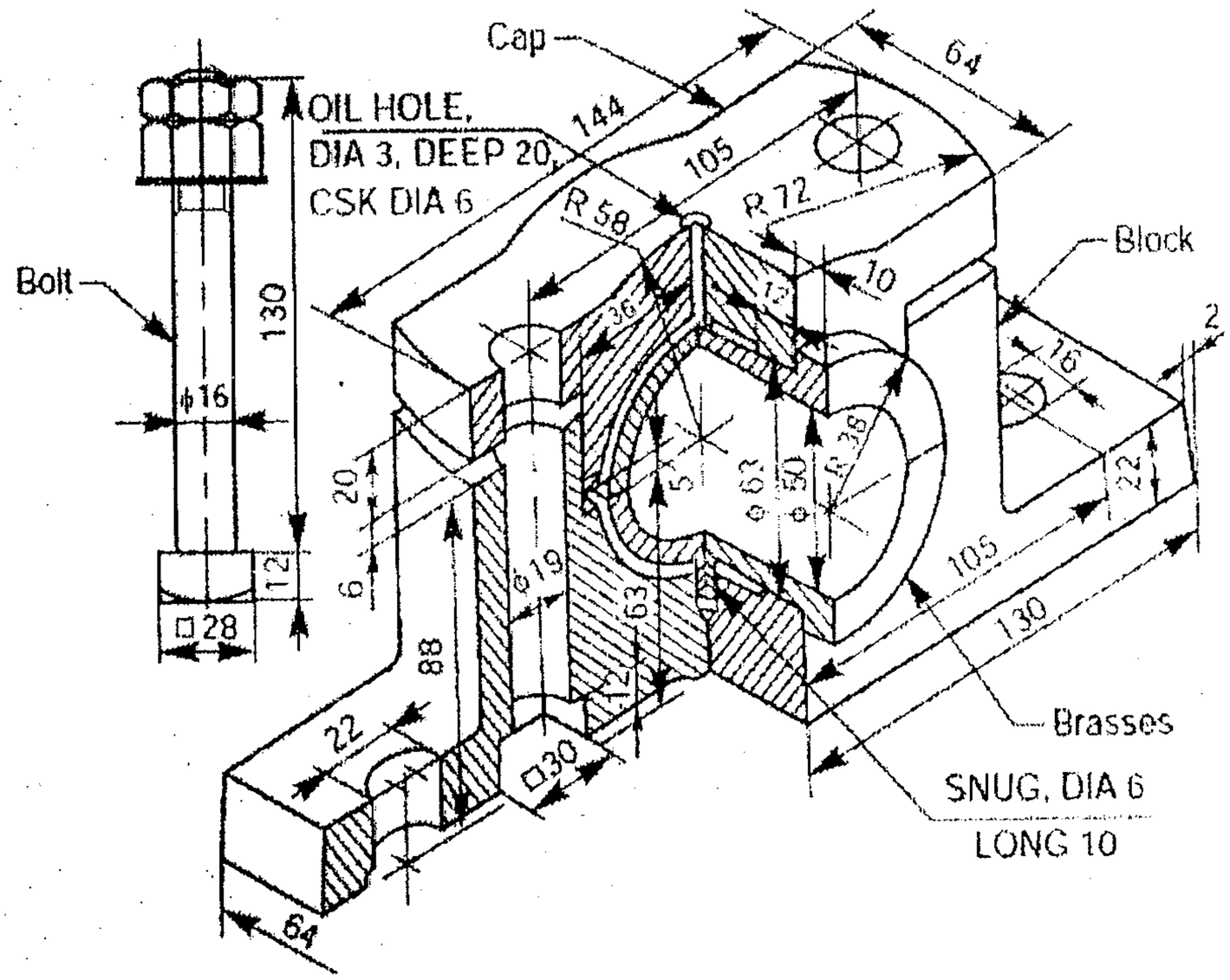


   ii) Sketch four different types of keys.

   iii) Draw the sectional front view and top view of a double riveted lap joint. Take thickness of plate as 8 mm. Show atleast 3 rivets per row in the top view.

P.T.O.

2. Draw the full sectional elevation and simple plan of the plummer block given in the figure : **30**



Plummer Block

PART – B

Civil Engg. Drawing and Estimation

Time : 2 Hours Marks : 50

Instructions : *1) Answer **any one full** question **each** from Part **I** and Part **II**.*

*2) Assume suitably any missing **data**.*

PART – I

1. Draw to a suitable scale, the plan, sectional elevation and front elevation of the office building shown in fig. 1. Specifications are as follows :

   a) Foundation P.C. C. 1 : 4 : 8, 80 cm wide, 20 cm deep; footing of RR masonry in cμ 1 : 6, 60 cm wide, 60 cm deep.

   b) Basement : RR masonry in cμ 1 : 6, 45 cm wide, 50 cm deep.

c) Superstructure : Brick masonry in Cμ 1 : 5, 20 cm thick continuous lintel 15 cm thick is provided over all the walls.

d) Roof : μP tile roofing (slope 30°), height of wall is 3.6m.

e) Flooring : PCC 1 : 3 : 6, 10 cm thick over which terrazzo floor is laid.

2. Draw to a suitable scale the plan, sectional elevation and front elevation of a residence shown in Fig. 2. Specifications are as follows :
   a) Foundation is of RR masonry of size 60 cm × 50 cm.
   b) Basement of RR masonry in Cμ 1 : 6, floor level 50 cm above ground.
   c) Superstructure of brick masonry in Cμ 1 : 5, 20 cm thick. Lintel provided throughout over all the walls.
   d) Roof is of RCC 1 : 2 : 4 and the height of walls 3 m. The front verandah and porch slab at lintel level. **(1×30=30 Marks)**

PART – II

3. Estimate the quantities of the following items of work for the building in Fig. 1.
   a) Earth work excavation. b) Brick work in superstructure.

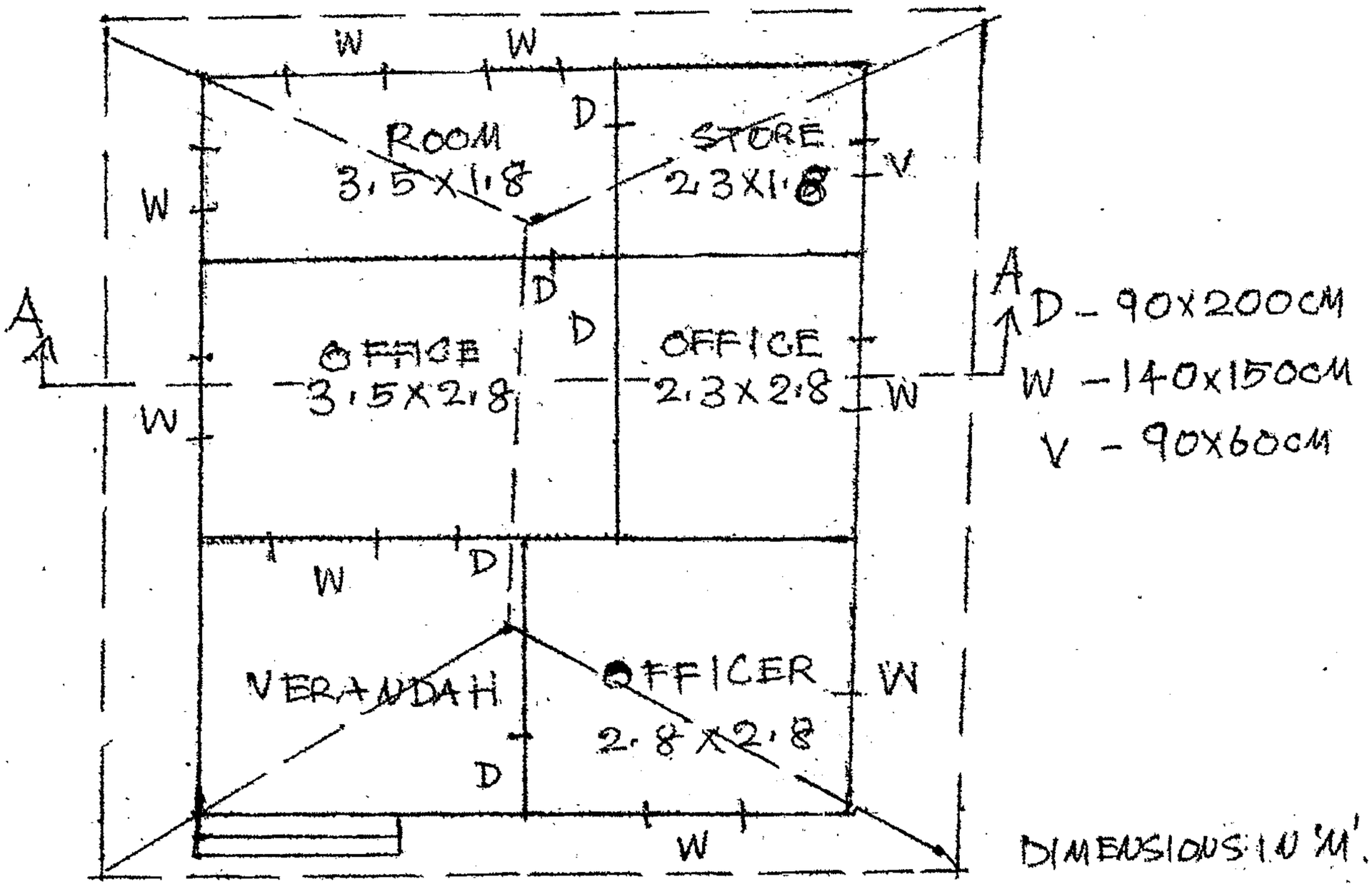


Fig. 1

4. Estimate the quantities for the following items of work for the building shown in Fig. 2 .

   a) RCC work for roof slab

   b) RR masonry in C μ 1 : 6.

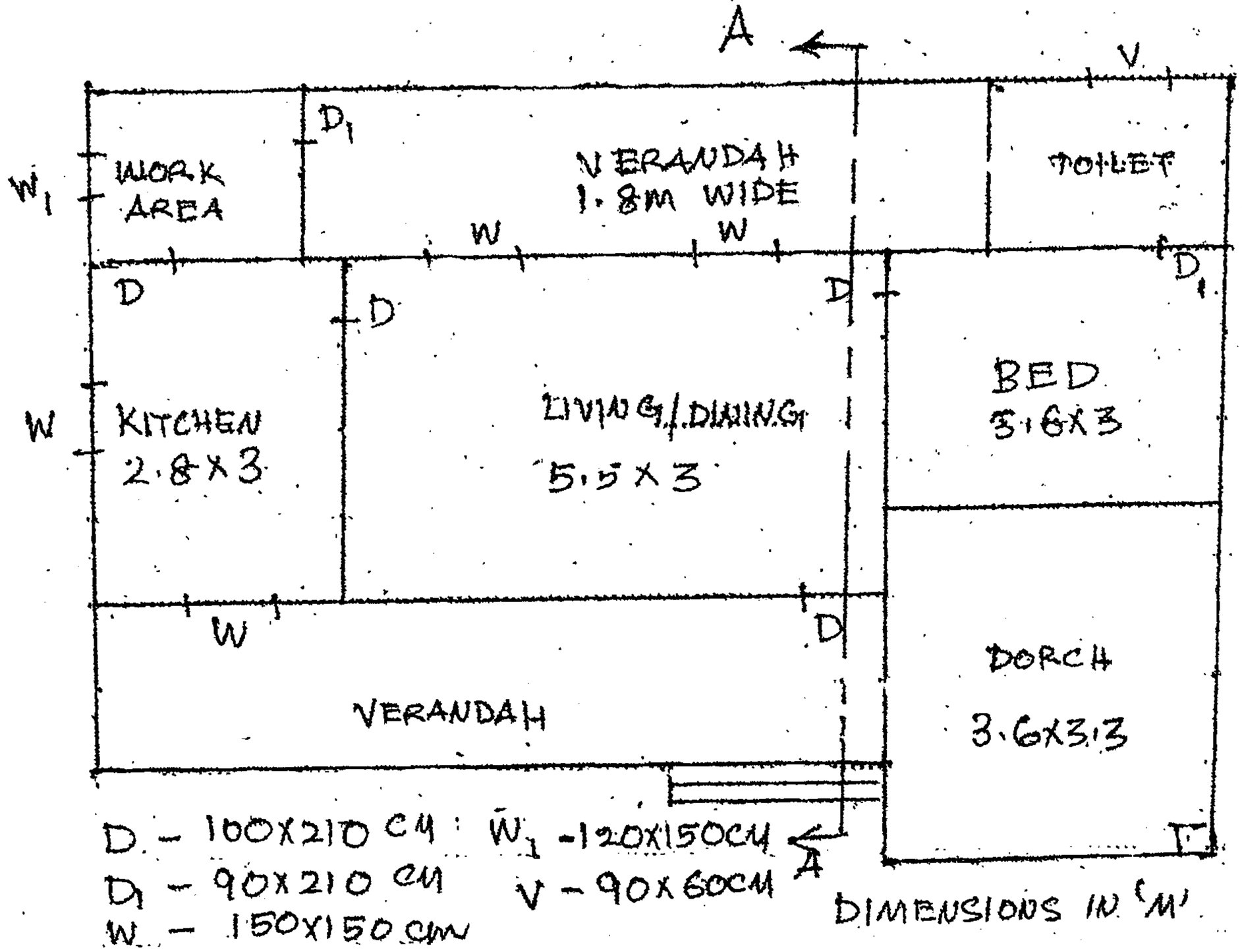


Fig. 2

(1×20=20 Marks)