

C 61573

(Pages : 2)



**FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, APRIL 2014**

(2009 Scheme)

CE 09 408 (P/D)/PTCE 09 407 (P/D)—CIVIL ENGINEERING DRAWING—I

Time : Three Hours

Maximum : 50 Marks

*Answer any two questions from Module I and question from Module II (compulsory).
Assume any missing data wherever necessary.*

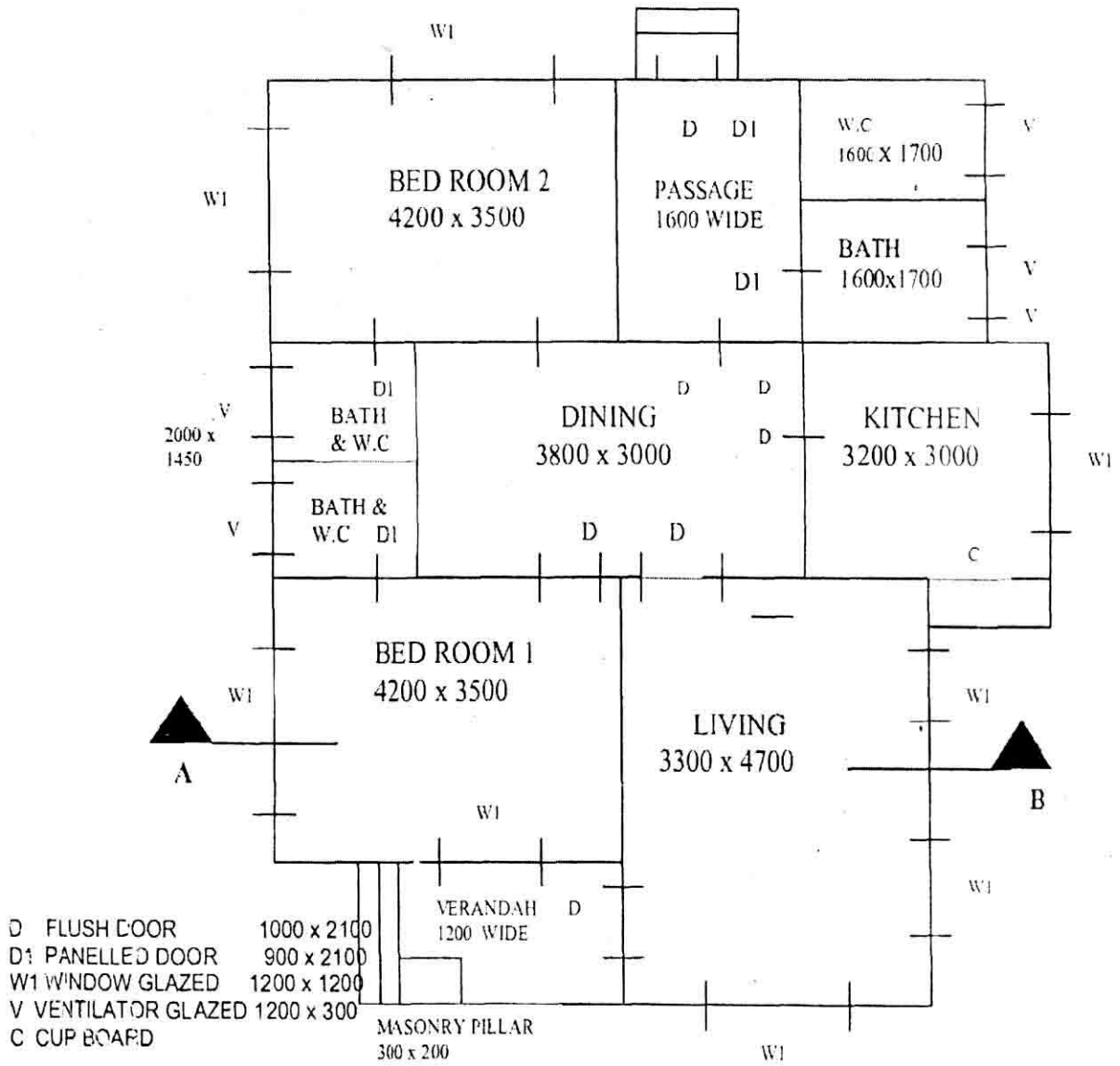
Module I

1. Draw the front elevation and cross-sectional view of a two leaf panelled door 1.2 m. × 2.1 m. height for an opening in a 300 mm. thick brick wall. Each leaf is divided into three equal panels.
(10 marks)
2. Draw to a suitable scale, elevation of a Steel Roof Truss, adopted for a span of 12 m. Also show the important joint details. Use suitable ISA sections.
(10 marks)
3. Sketch the arrangement of a Dog-Legged Stair of a residential building. The total space available is 5 m. × 3 m. The height of the roof is 3.00 m.
(10 marks)

Module II

4. Draw to a suitable scale, plan, section and front elevation of the line sketch shown in figure (on Page 2). The specifications are as follows :
Foundation and basement : R.R. masonry in CM 1 : 6. The depth of foundation is 1200 mm. below the ground level and includes 150 mm. thick : P.C.C. course. The width of foundation is 1000 mm. at the footing level. The basement has a width of 450 mm. and height of 500 mm. above the ground level.
Superstructure : 300 mm. thick brick walls in CM 1 : 6. Height of the room from floor level is 3.3 m.
Roofing : R.C.C. 1 : 2 : 4 mix, 120 mm. thick flat slab. Verandah slab will be of R.C.C. 1 : 2 : 4 mix, 100 thick at a height of 2600 mm. from verandah floor level.
Flooring : 150 mm. thick P.C.C. of 1 : 4 : 8 finished with ceramic tiles over 10 mm. thick CM 1 : 3.
(30 marks)

Turn over



All dimensions in mm.