C 80681   (Pages : 2)   Name....................................

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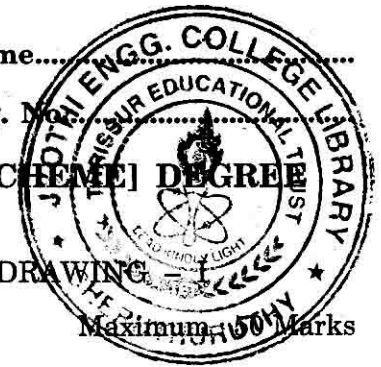
FOURTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE EXAMINATION, APRIL 2015

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

Time : Three Hours   Maximum : 50 Marks

Part A

Answer any **two** *questions.*

1. Draw the front elevation and vertical section of a glazed ventilator in wood with all details. Size : 0.5 m height and 1.20 m wide.

                                                                    (10 marks)

2. Draw the sectional plan and sectional elevation of half turn RCC stair in a room of size 5 m × 3 m and 3 m height. Assume suitable other data, which are not given.

                                                                    (10 marks)

3. Draw a steel tubular truss of clear span of 10.0 m, having circular pipe sections. Assume suitable data, not given.

                                                                    (10 marks)

                                                            [2 × 10 = 20 marks]

Part B

Answer the questions.

4. A line sketch of a three bed room house is shown. Draw the working drawings of this house. Such as : (i) Plan ; (ii) Front elevation ; and (iii) Section A-A.

   The foundation and basement are of R.R. masonary in CM 1 : 6. The depth of foundation is 90 cm below the existing ground level and includes 15 cm thick PCC course. The basement has a width of 30 cm and height 45 cm above ground level.

   The brick walls are 20 cm thick in CM 1 : 6. Provide sunshades, lintels and beams at necessary places.

   The roof is 12 cm RCC slab projecting out by 60 cm. Assume all other data required.

                                                                    Turn over
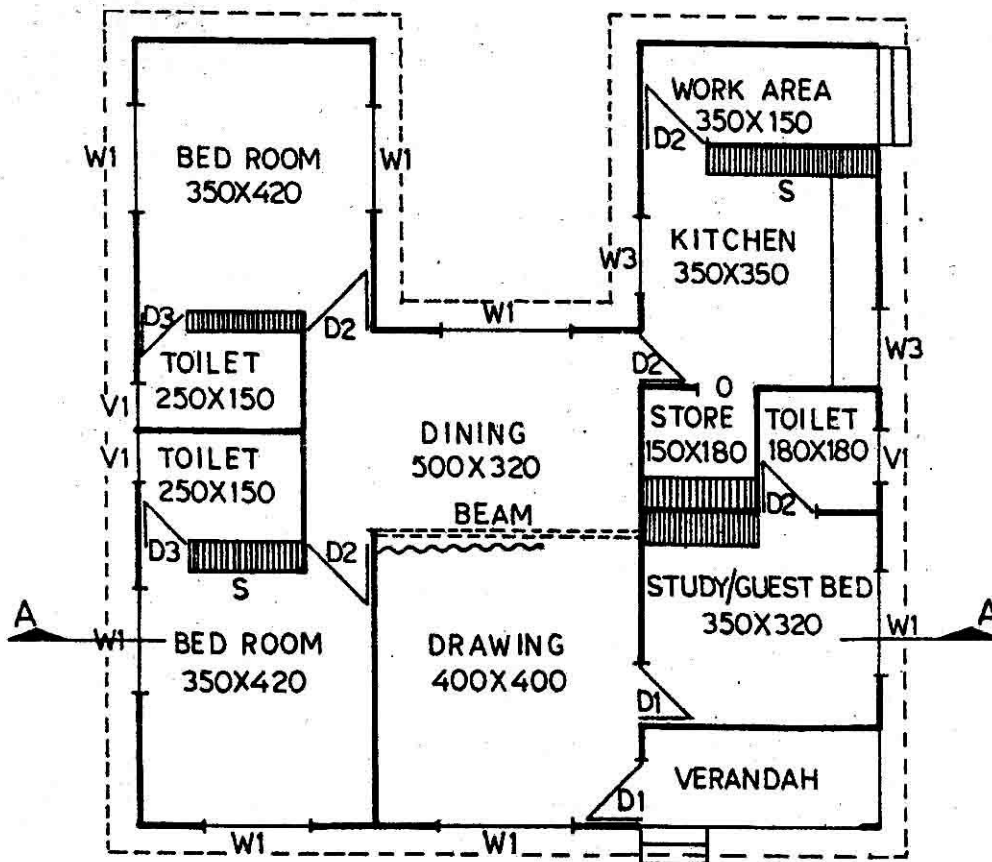
ALL INSIDE DIMENSIONS   DIMENSIONS IN CENTIMETRES

Index :

D1—Door—1.00 × 2.1 m.

D2—Door—0.90 × 2.1 m.

W1—Window—1.5 × 1.5 m.

W2—Window—1.0 × 1.5 m.

W3—Window—1.5 × 1.0 m.

S—Shelf—0.45 × 2.1 m.

V1—Ventilator—0.75 × 0.5 m.

O—Opening—1.0 × 2.1 m.

(1 × 30 = 30 marks)