S4 ARC

TED (10) – 3033

Reg. No. .....

(REVISION — 2010)

Signature .....

FOURTH SEMESTER DIPLOMA EXAMINATION IN ARCHITECTURE — MARCH, 2015

WORKING DRAWING – I

[*Time* : 3 hours

(Maximum marks : 100)

[*Note* :— 1. Drawing shall be neat and fully dimensioned.
2. Missing data can be suitably assumed.
3. A2 size drawing sheet to be supplied.]

PART—A

(Maximum marks : 10)

Marks

I Answer the following questions in one or two sentences. Each question carries 2 marks.

1. Differentiate between header and stretcher.
2. List out four types of shallow foundation.
3. What is meant by rail ?
4. Define soffit.
5. What is the use of purlin in a truss ? (5×2=10)

PART—B

(Maximum marks : 30)

II Answer any three questions. Each question carries 10 marks.

1. Draw the plans of two consecutive courses of one brick wall English Bond.
2. Draw the cross section of a typical masonry wall footing with step.
3. Draw the plan and elevation of a Bifurcated stair.
4. Draw the plan details of connection between door frame, style and panel.
5. Draw the details at base plate connection of a steel truss. (3×10=30)

PART—C

(Maximum marks : 60)

(Answer *one* full question from each unit. Each full question carries 15 marks.)

III Draw the plan of odd and even courses of one and a half brick wall in Flemish Bond with a stopped end at a distance of 80 cm. Also draw an elevation of the wall to a height of 40 cm. 15

OR

Marks

IV Draw the plan and two sections of a raft foundation for two roomed shop building with the outer dimensions are 9.6 × 4.2 m. 15

UNIT—II

V Draw the front elevation sectional plan and cross sectional view of a half panelled and half glazed double shuttered door of size 120 × 210 cm. Door frames 10 × 7 cm, shutter frames 10 × 4 cm, panels 16 mm thick and glass 3 mm thick. 15

OR

VI Draw the front elevation sectional plan and cross sectional view of a fully glazed window of size 150 × 150 cm. Window frame 9 × 7 cm, shutter frames 7 × 3 cm, sash bar 3 × 3 cm, glass 3 mm thick. 15

UNIT—III

VII Draw the plan and sectional elevation of a dog legged staircase for a residential building with the following data and showing reinforcement details. Tread 30 cm, Rise 15 cm, stair width 90 cm, room height 315 cm. 15

OR

VIII Draw the plan and section of a passenger lift, machine room and lift pit for a three storied building. The floor height is 360 cm. 15

UNIT—IV

IX Draw the elevation of a typical steel truss of 8 m span with a supporting wall of 30 cm thick. 15

OR

X Draw the elevation of a tubular truss of 7.5 m span with a supporting wall of 30 cm thick. 15