

SE ARC

TED (10) – 4016

Reg. No.

(REVISION — 2010)

Signature

SIXTH SEMESTER DIPLOMA EXAMINATION IN ARCHITECTURE —
MARCH, 2015

WORKING DRAWING — III

[Time : 3 hours

(Maximum marks : 100)

- [Note :—1. Assume any missing data.
2. All drawings shall be neat and fully dimensioned
3. 2 Nos. of A2 size drawing sheets should be supplied.]

PART—A

(Maximum marks : 10)

Marks

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

1. What is a curtain wall ?
2. Name any two materials used for suspended ceilings.
3. What is a circuit ?
4. Sketch the symbols of one way and two way switches.
5. What is a one way slab ?

(5×2=10)

PART—B

(Maximum marks : 30)

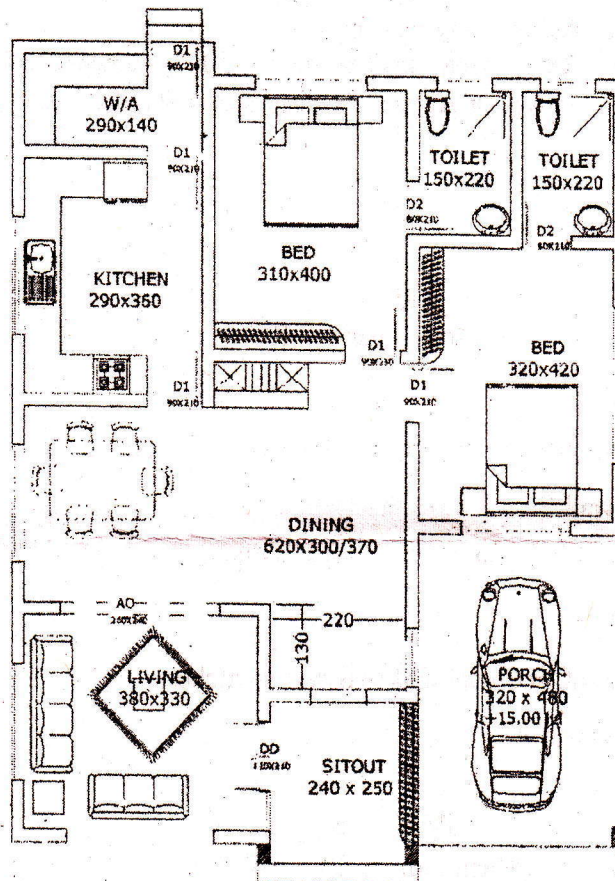
II Answer *any three* of the following questions. Each question carries 10 marks.

1. Draw the typical section of a jointed suspended ceiling.
2. Draw the electrification layout of a bed room measuring 360cm × 420cm to a scale of 1:50, showing all furniture details.
3. Draw the longitudinal section along short span of a one way slab of size 3.5m × 8m, 10cm thick with 10 mm dia bars @ 150mm c/c (alternate bars bent up) along short span and 10mm dia bars @ 180mm c/c along long span.
4. Draw the sectional elevation of a RCC square column of size 30cm × 30cm with footing of size 1 × 1m and 10mm dia bars provided as reinforcement @ 100mm c/c in both directions. The thickness at the edge of the footing is 10cm and of the sloping side at the column face is 30cm. Column is provided with 4 nos. of 16mm dia bars and 8mm lateral ties @ 150mm c/c. (3×10=30)

PART—C
(Maximum marks : 60)

(Answer the following questions. Each question carries 30 marks)

- III Draw the electrification layout of the residential building given in the figure. Furniture details need not be shown.



30

- IV A simply supported beam of size $20 \times 40\text{cm}$ and span 3m is supported on a 20cm thick wall. It is reinforced with 3 bars of 10mm dia tensile reinforcement at bottom from which one bar is cranked to the top. 2 bars of 8mm dia stirrup holders are provided at top and shear reinforcement of 6mm dia stirrup @ 300mm c/c throughout the span.

- Draw : (i) Longitudinal section
(ii) c/s at support
(iii) c/s at midspan.

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