

TED (10) 4016
(Revision 2010)

Reg.No.
Signature.

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE – OCTOBER/NOVEMBER-2018.

WORKING DRAWING - III

(Maximum Marks : 100)

Time : 3 hours

- [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 all questions in one or two sentences. Each question carries 2 marks.

1. Write any two functions of cladding.
2. Sketch the symbols of ceiling fan and push button.
3. Specify the minimum cover for RCC column and RCC slab.
4. Write short note on suspended ceiling.
5. Define two way slab.

(5x2=10)

PART-B

Maximum marks (30)

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

1. Draw the sectional details of a vertical glazed cladding on a wall.
2. Draw the electrical layout of a living room of size 420X360cm to a scale of 1:50.
3. Draw to a suitable scale longitudinal and a cross section of a simply supported RCC beam from the following data.

Size of beam	20X30cm
Clear span	300cm
Reinforcement	2Nos of 10mm dia bars @the bottom 2Nos of 8mm dia bars @the top and 6mm dia stirrups @20cm c/c

4. Draw the cross-sectional plan and elevation of a square column with the following data.

Longitudinal bar	- 20mm dia bars, 8 Nos	
Transverse ties	- 6mm dia bars @ 30cm c/c	
Column size	- 50cm X 50cm	
Footing size	- 260cm X 260cm	
Thickness of footing	- 150cm at free end and 40cm at column face	
Depth below GL	- 120cm	(3x10=30)

PART C

III. The details of a one way slab is given below.

Size of the room 450 X 750. Wall thickness 30cm.

Bearing over wall is 20cm. Slab thickness 10cm

Main reinforcement @ 60cm from supports. 12mm dia bars @ 25cm c/c alternate bars bent up

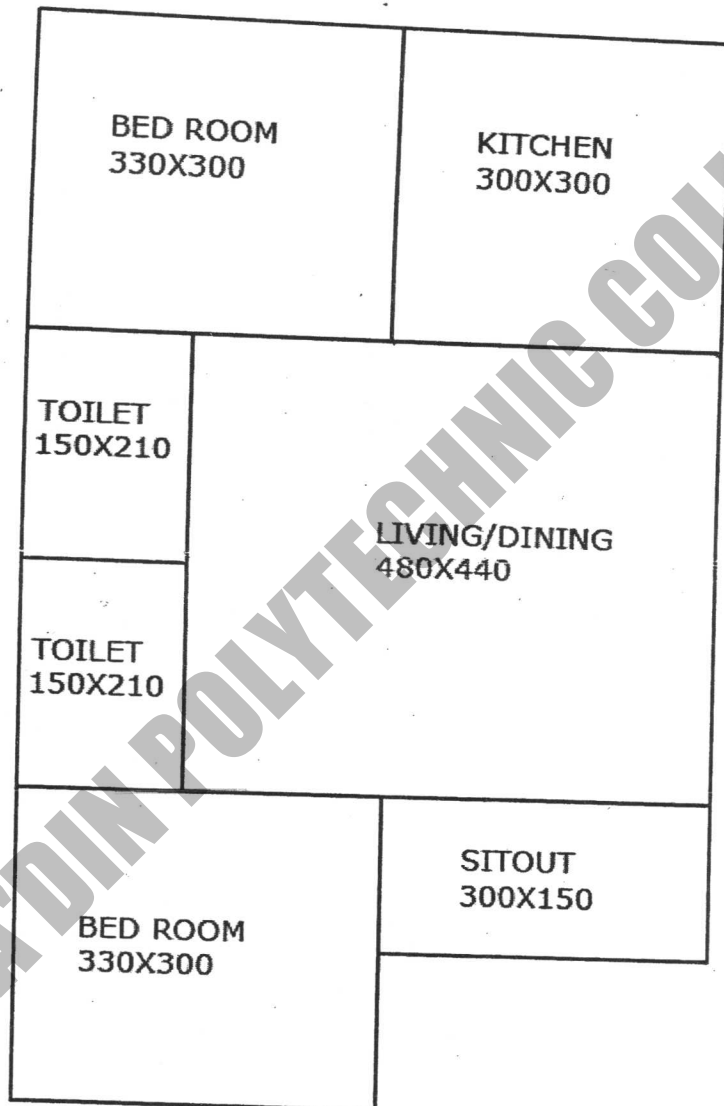
Distributors 8mm dia bars @ 20cm c/c.

Draw plan showing arrangements of reinforcement and draw section along shorter span. (30)

IV The line plan of a residential building is given in the figure. Draw the detailed plan and show the electrification layout of the building. (30)

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LINE PLAN OF A RESIDENCE