



Reg. No. :

Name :

Third Semester B.Tech. Degree Examination, December 2015
(2008 Scheme)

08.306 : ENGINEERING DRAWING (MPU)

Time : 4 Hours

Max. Marks : 100

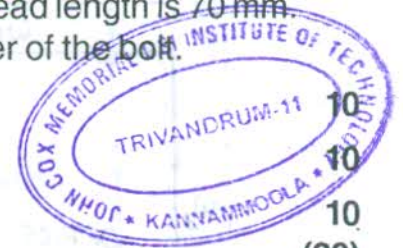
PART - A
(Machine Drawing)

Time : 2 Hours

Max. Marks : 50

1. Sketch (freehand) **any two** of the following views of a hexagonal headed bolt and nut of size M24. The length of the bolt is 100 mm and the thread length is 70 mm. Show all dimensions on the drawing in terms of the diameter of the bolt.

- i) Front view.
- ii) Left hand side view.
- iii) Right hand side view.

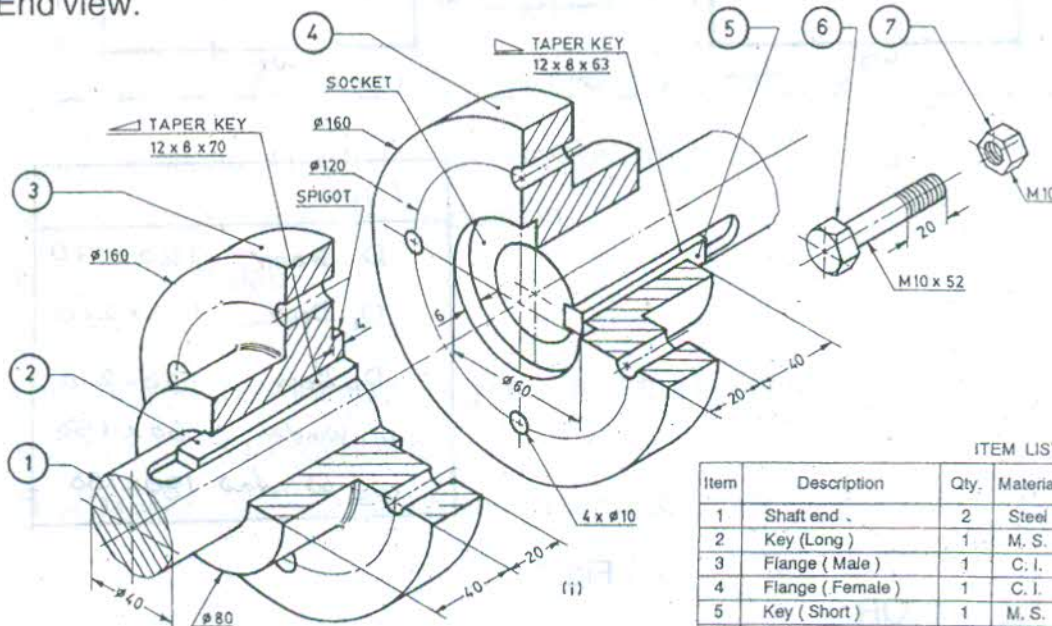


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10
(20)

2. An isometric view of a Flanged Coupling (unprotected-type) is shown in figure. Figure : A-Q2. Make dimensioned drawing of the following :

- I) Sectional front view.
- II) End view.

20
10
(30)



ITEM LIST			
Item	Description	Qty.	Material
1	Shaft end	2	Steel
2	Key (Long)	1	M. S.
3	Flange (Male)	1	C. I.
4	Flange (Female)	1	C. I.
5	Key (Short)	1	M. S.
6	Bolt	4	M. S.
7	Nut	4	M. S.

Figure : A-Q2



PART - B
(Civil Engg. Drawing and Estimation)

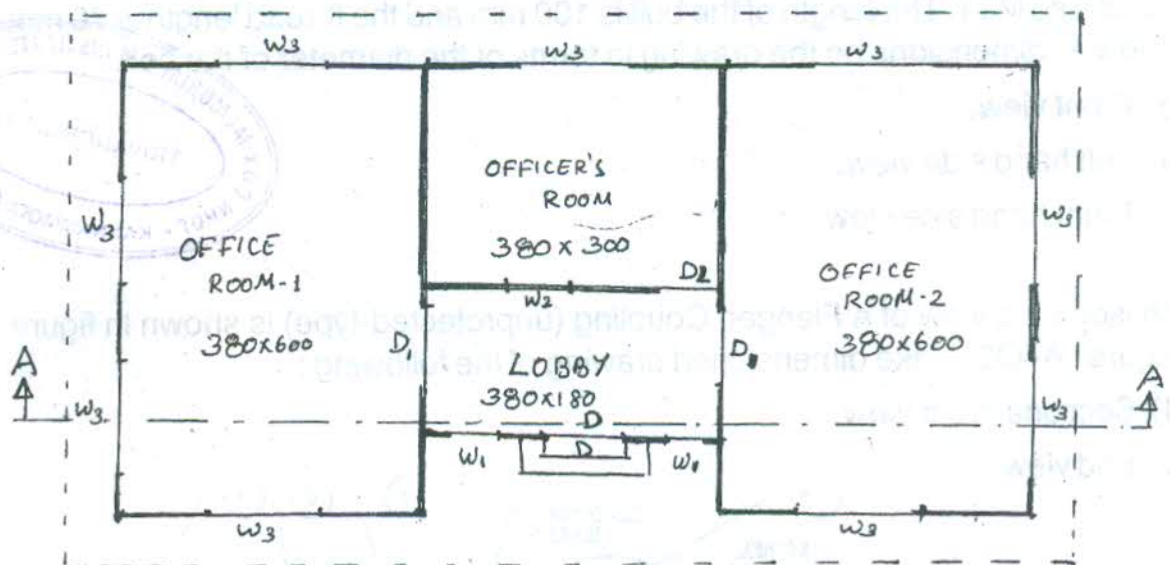
Time : 2 Hours

Max. Marks : 50

Part - I

Answer **any one** question. **Assume any** missing data **suitably**.

1. Draw the plan, section AA and Elevation of a building. Shown in Fig. 1.
 Specifications : FOUNDATION : P.C.C. 1 : 4 : 875 cm wide and 10 cm thick,
 R. R. Masonry in c.m. 1 : 8 60 × 60 cm. BASEMENT : R.R. Masonry in c.m. 1 : 8
 45 × 45 cm. SUPER STRUCTURE : Brick work in c.m. 1 : 6, 20 cm thick and
 height 300 cm with 15 cm. Lintel. Sun shade 60 cm wide and 10 cm thick. 30



INDEX		
D	DOOR	120 x 210
D ₁	DOOR	110 x 210
D ₂	DOOR	90 x 210
W ₁	WINDOW	60 x 150
W ₃	WINDOW	180 x 150

Fig. 1

OR



2. Draw the plan, section AA and elevation of building shown in Fig. 2.

SPECIFICATION : FOUNDATION : P.CC 1 : 4 : 8. 75 cm x 10 cm. R.R. in c.m. 1 : 8, 60 x 60 cm. BASEMENT R. Rin c.m. 1 : 8, 45 x 45 cm. SUPER STRUCTURE : Brick work in c.m. 1 : 6, 20 cm. Thick and 3 m height : ROOF : M.P. tile roof. 30

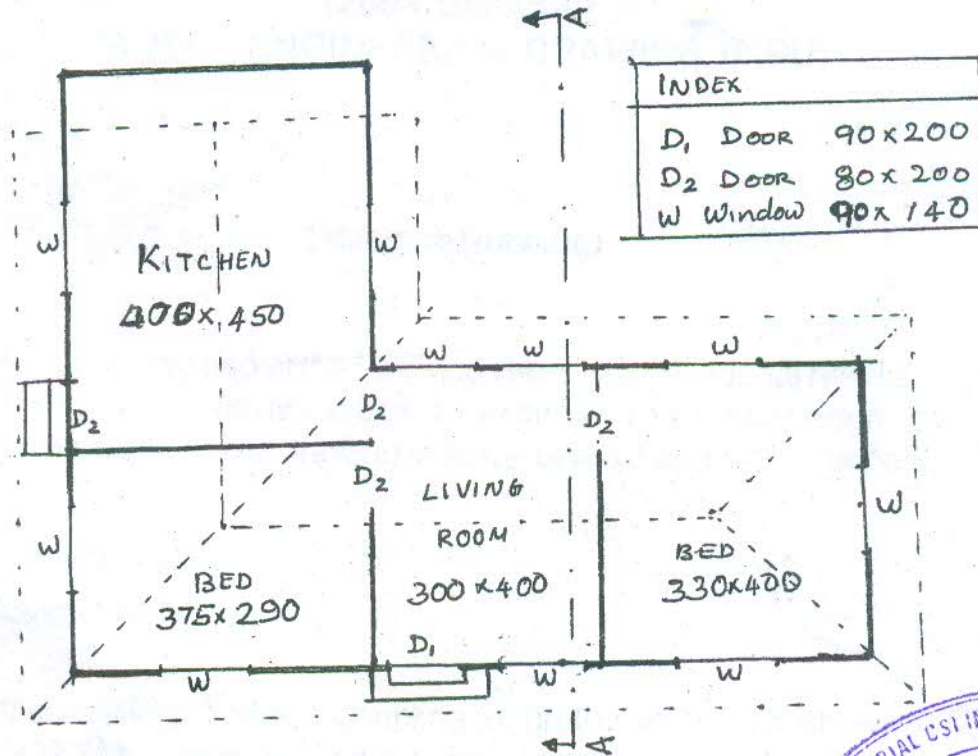


Fig. 2

Part - II



Answer any one question. Assume any missing data suitably.

3. Find the quantities of the following item from the building in Fig. 1 :

- a) Earth work excavation for foundation.
- b) R.CC for roof slab.

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OR

4. Find the quantities of the following item from the building in Fig. 2 :

- a) P.C.C. 1 : 4 : 8 for foundation.
- b) R. R. Masonry for foundation and basement.

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