

06/06/2012 – 2.30pm to 5.30pm

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10ME36A/46A

**Third/Fourth Semester B.E. Degree Examination, June 2012**  
**(ME/IP/IM/MA/AE)**

**COMPUTER AIDED MACHINE DRAWING**

Time: 3 Hours

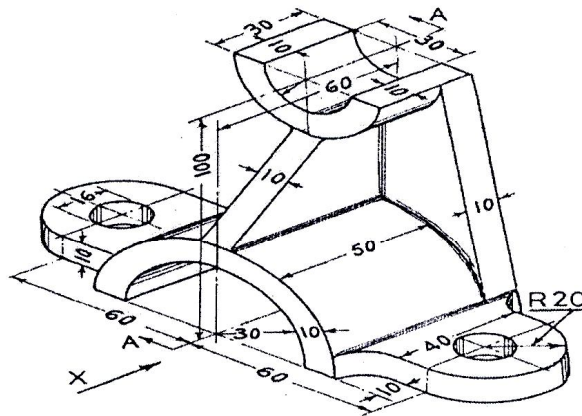
Max. Marks: 100

- Note: 1. Answer any ONE question from each of the parts A, B and C.  
2. Use FIRST ANGLE Projections only.  
3. If any data is missing it may be suitably assumed and mentioned.  
4. All the calculations should be on the answer sheet supplied.  
5. All the dimensions are in mm.  
6. Drawing instruments may or may not be used for sketching.  
7. Part C assembled view should be in 3-D and other views in 2-D

**PART – A**

- 1) Draw the following views for the given machine component.  
a) Front View  
b) Top view and  
c) Sectional Left side view

[20 Marks]



- 2) Draw two views of a hexagonal headed bolt and nut with washer (assembly) for a 25mm diameter bolt. Take the length of the bolt equal to 100mm.

[20 Marks]

**PART – B**

- 3) Draw the sectional front view and top view of a double-riveted butt joint with double cover straps to connect two plates of 12mm thickness. Use snap head rivets and show all the calculations on the answer sheet. Use zigzag riveting arrangement.

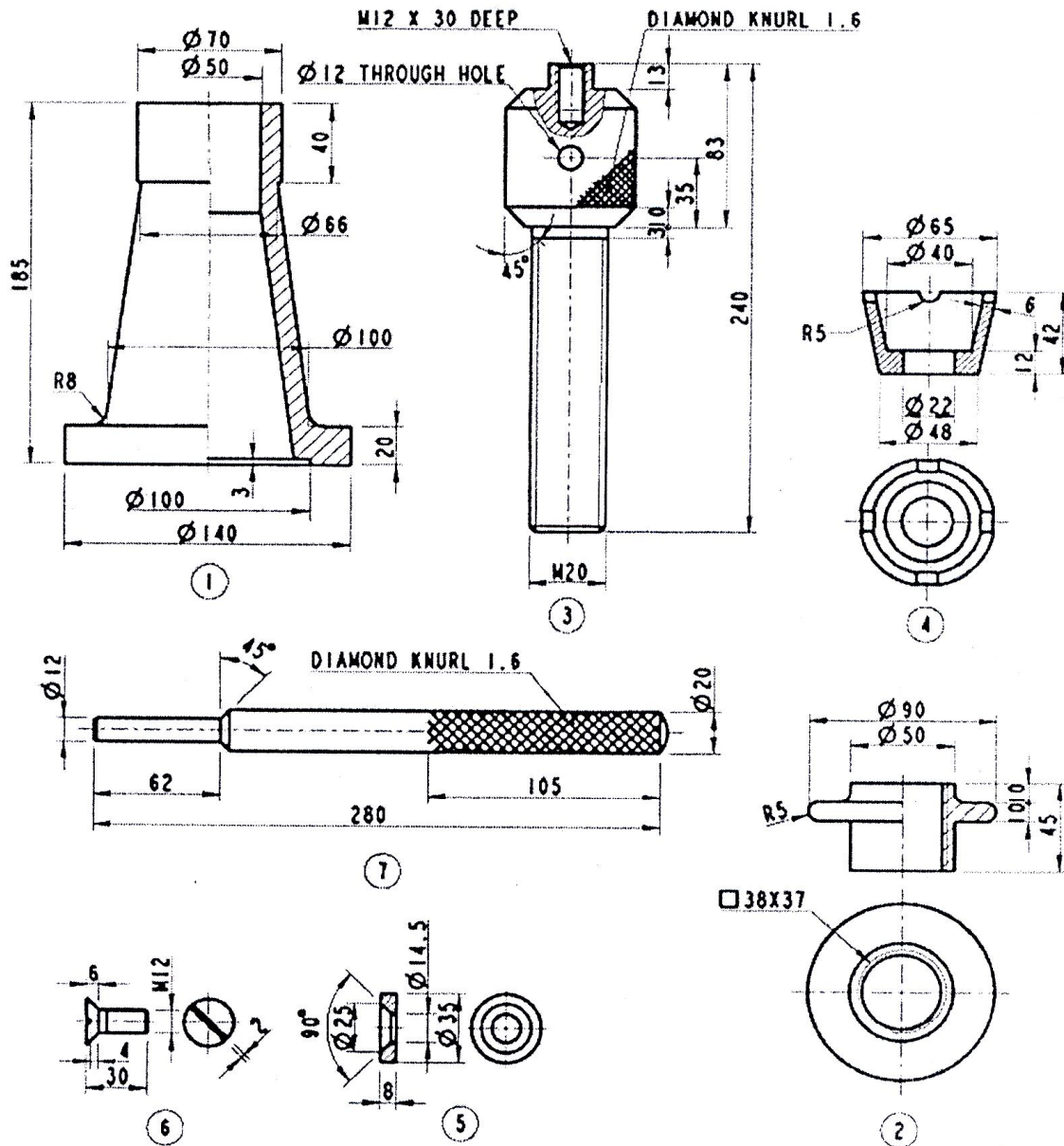
[20 Marks]

- 4) Draw the side view and sectional front view of a Universal coupling by taking the shaft diameter as 20mm. [20 Marks]

PART – C

- 5) Figure 1. Shows the details of a Screw Jack. Assemble the parts and draw i) Sectional Front View ii) Top view iii) Assembled 3D view.

[60 Marks]



7	TOMMY BAR	Fe 410W	1
6	CSK SCREW	Fe 410W	1
5	WASHER SPECIAL	Fe 410W	1
4	CUP	CAST STEEL	1
3	SCREW-SPINDLE	Fe 410W	1
2	NUT	GUN METAL	1
1	BODY	CAST IRON	1
PART No.	DESCRIPTION	MATL.	No. OFF

Fig. 9.2 Detail of Parts View of Screw Jack  
FIGURE 1

6) Figure 2. Shows the details of a Machine Vice. Assemble the parts and draw i) Sectional Front View ii) Top view iii) Assembled 3D view.

[60 Marks]

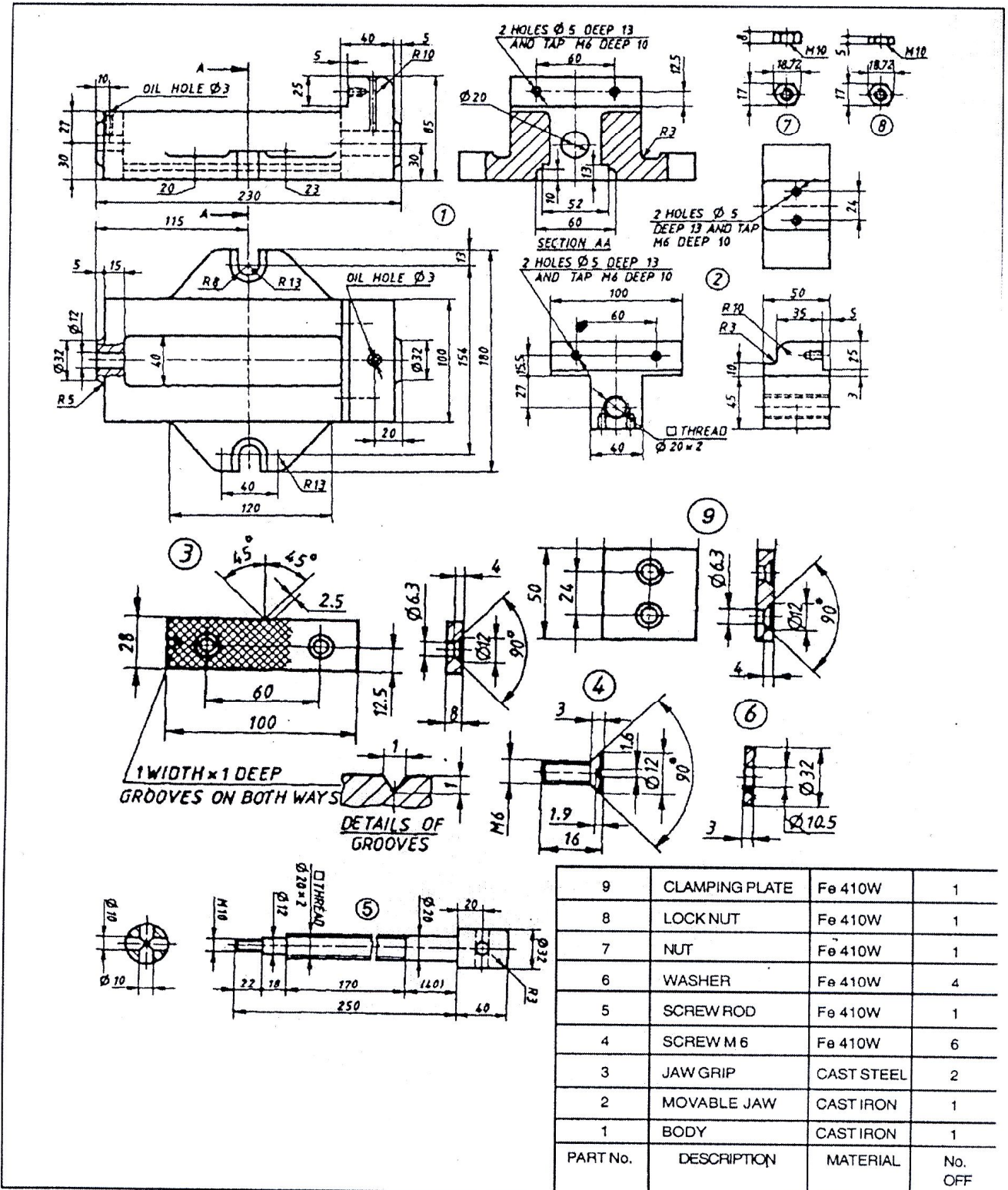


Fig. 9.22 Detail Parts View of Machine Vice

FIGURE 2