

USN \_\_\_\_\_

18ME36A/18MEA306/18MA36

Third Semester B.E. Degree Examination, December 2019

**COMPUTER AIDED MACHINE DRAWING**

Time: 3 Hours

Max. Marks: 100

- Note: 1. Answer any one question from each of the parts A,B,C  
2. Use **FIRST ANGLE** projection only.  
3. Missing data if any may suitable be assumed  
4. All the calculations should be on answer sheet supplied  
5. All the dimensions are in mm  
6. **Part C Assembled View should be in 3D and the other 2 views in 2D**

**PART-A**

- Q. No. 1** A triangular pyramid of base sides 50mm and axis 80mm long stands vertically with its base on the HP, such that one of the base edges is perpendicular to VP. A sectional plane perpendicular to VP and parallel to one of the slant edges of the pyramid passes at a distance of 25mm from it. Draw the sectional topview and true shape of section. Also determine the inclination of the section plane with the reference plane. **(25 Marks)**
- Q. No. 2** Draw the conventional form of following threads for pitch 30 mm at least 3 threads each a) BSW thread b) ISO thread. **(25 Marks)**

**PART-B**

- Q. No. 3** Draw two views of socket and spigot cotter joint of diameter of shaft 25mm. **(25 Marks)**
- Q. No. 4** Draw two views of a Protected type flanged coupling of diameter of shaft of 25mm. **(25 Marks)**

**PART-C**

- Q. No. 5** Figure:1 Shows the details of "Machine vice" Assemble the parts and draw the following: a) Sectional front view b) Top view **(50 Marks)**
- Q. No. 6** Figure:2 Shows the details of "Tail Stock" Assemble the parts and draw the following: a) Sectional front view b) Top view **(50 Marks)**

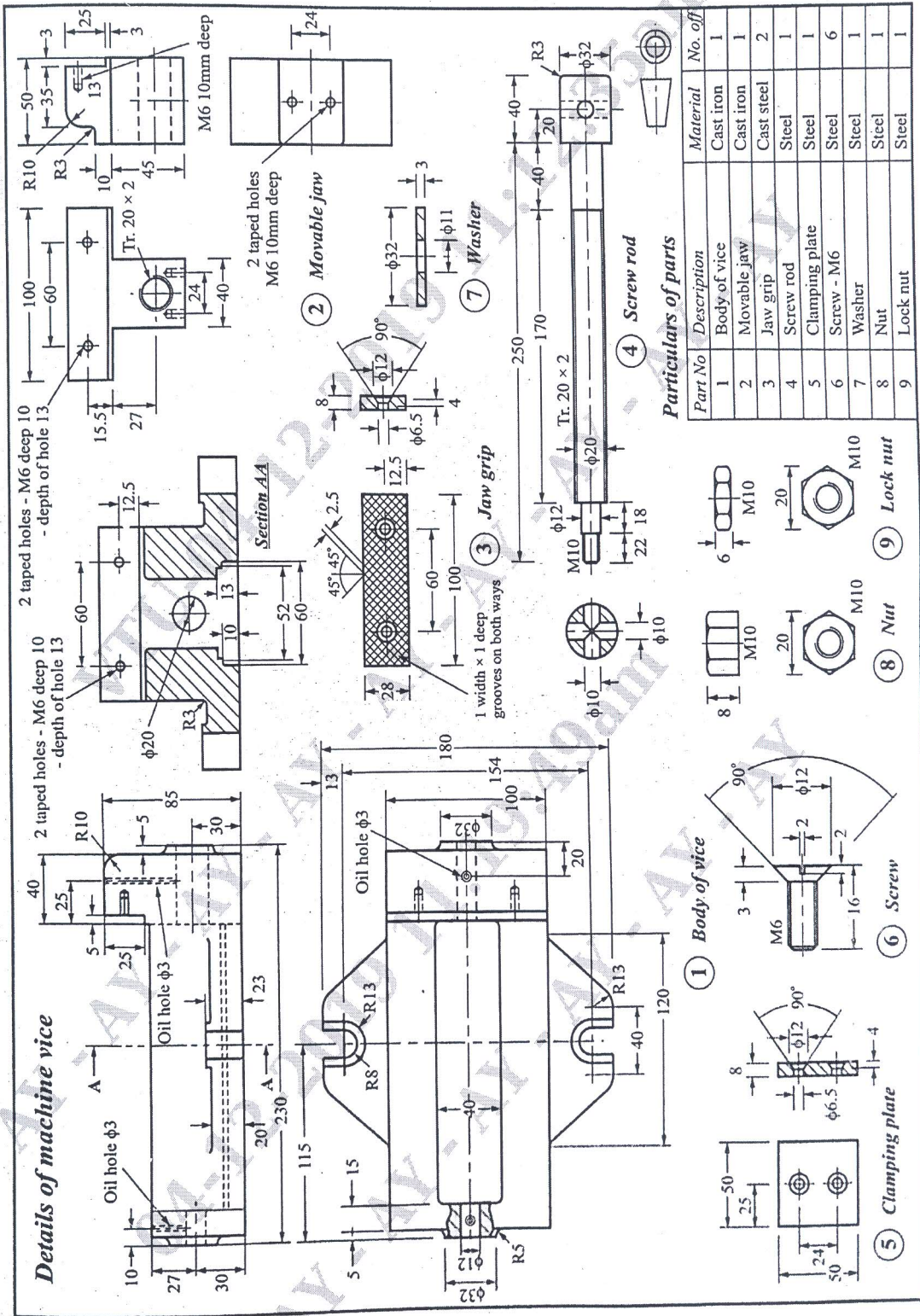


Figure 1: Details of Machine vice



USN									
-----	--	--	--	--	--	--	--	--	--

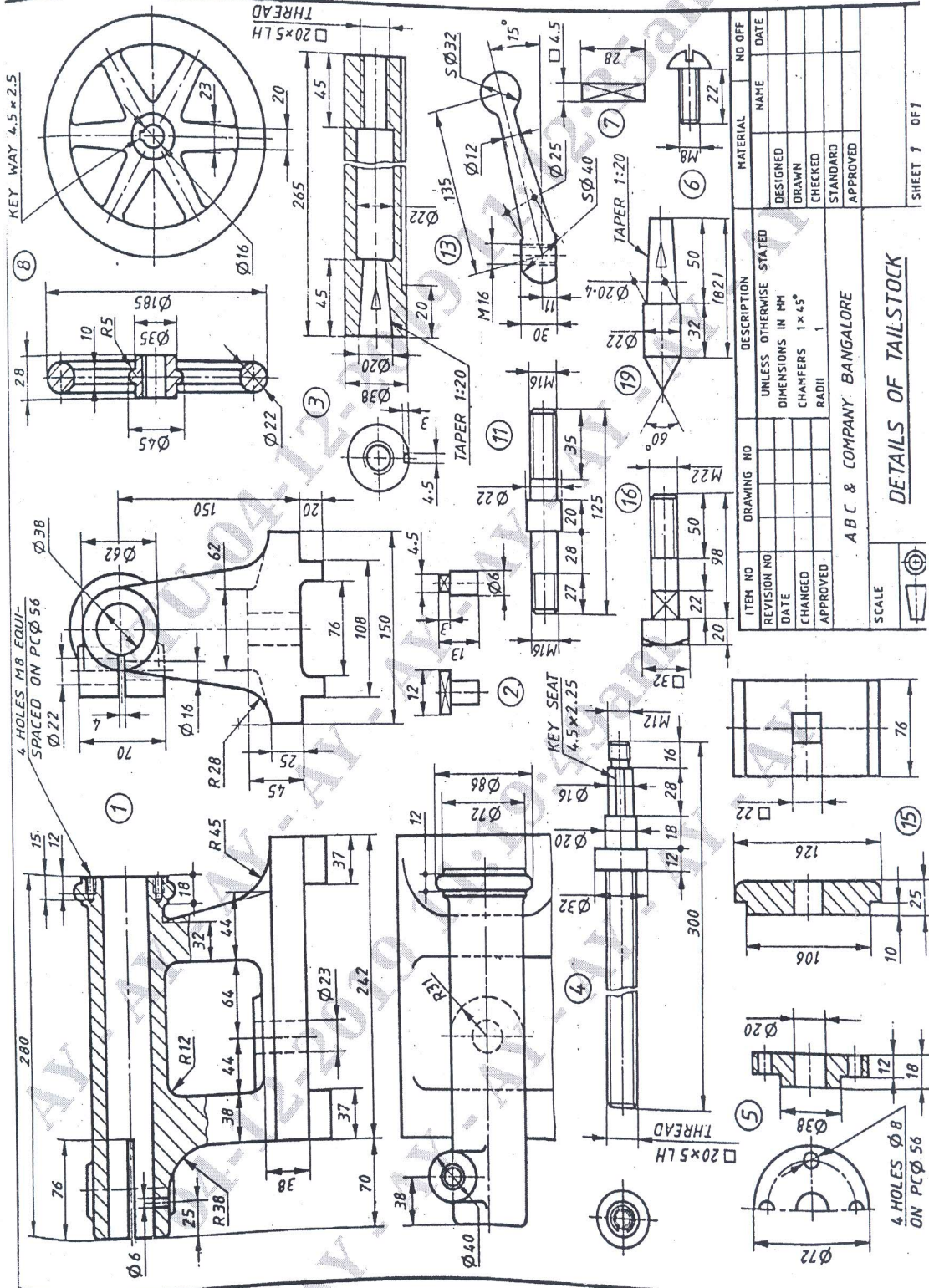


Figure 2: Details of Tail Stock

ITEM NO	REVISION NO	DRAWING NO	DESCRIPTION	MATERIAL	NO OFF
			UNLESS OTHERWISE STATED		
			DIMENSIONS IN MM	DESIGNED	NAME
			CHAMFERS 1 x 45°	DRAWN	DATE
			RADI	CHECKED	
				STANDARD	
				APPROVED	

SCALE

ABC & COMPANY BANGALORE

DETAILS OF TAILSTOCK

SHEET 1 OF 1