

Extra

18ME36A/18MEA306/18MA36

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

Third Semester B.E. Degree Examination, January 2020

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 cone of base diameter 50 mm and axis Length 65 mm rests with its base on the HP. Draw the sectional top view and true shape of the section made by the sectional plane perpendicular to VP and inclined to HP at 50° and passing through an end point on the circumference of the base circle of the cone. (25 Marks)
- Q. No. 2 Draw the conventional form of following threads for pitch 40 mm at least 3 threads each a) BSW thread b) Sellers thread. (25 Marks)

PART-B

- Q. No. 3 Draw two views of socket and spigot cotter joint of diameter of shaft 25 mm. (25 Marks)
- Q. No. 4 Draw two views of a flanged coupling (Protected type) of diameter of shaft of 30 mm. (25 Marks)

PART-C

- Q. No. 5 Figure: 1 Shows the details of "Screw Jack". 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)

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

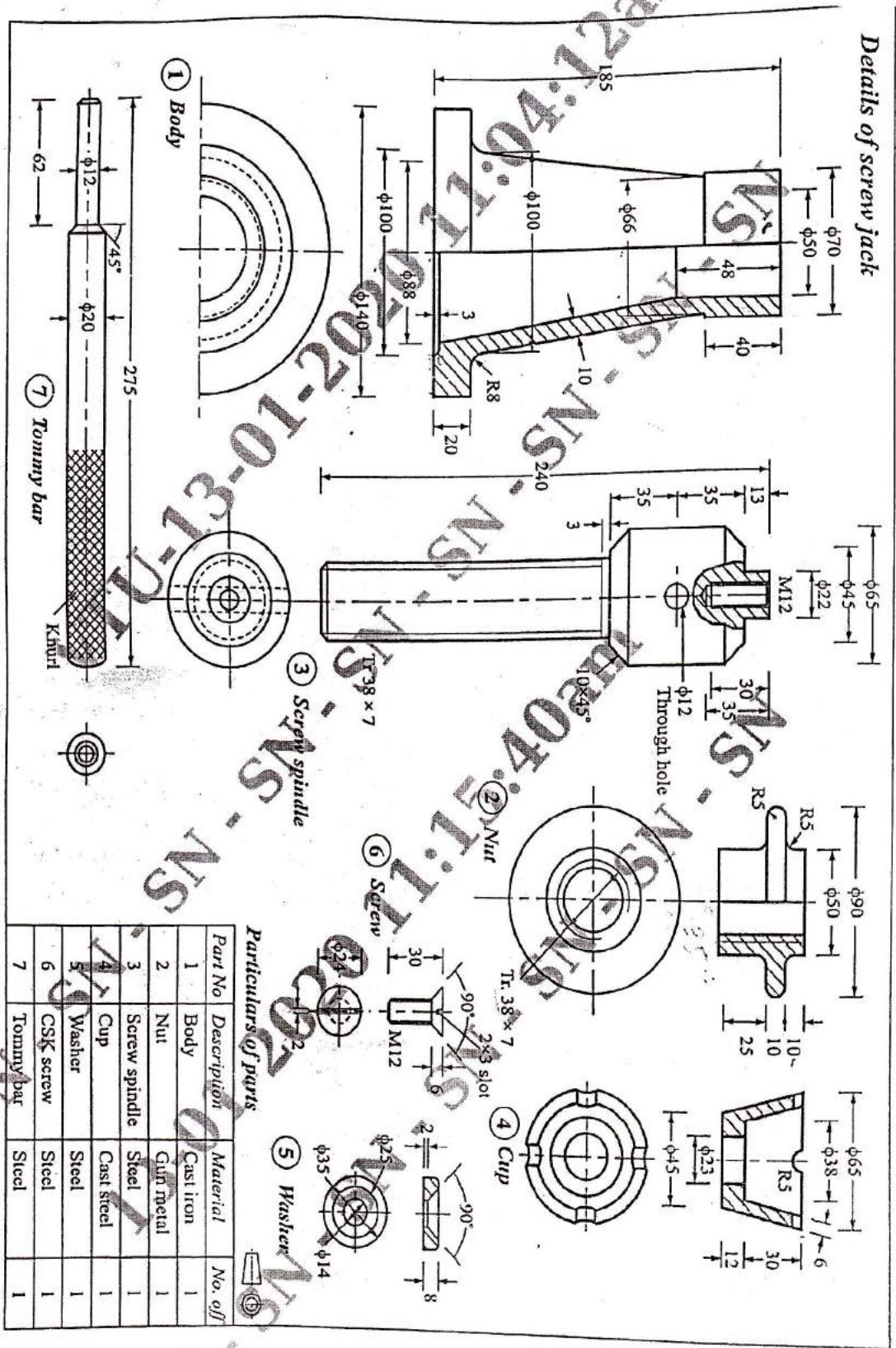
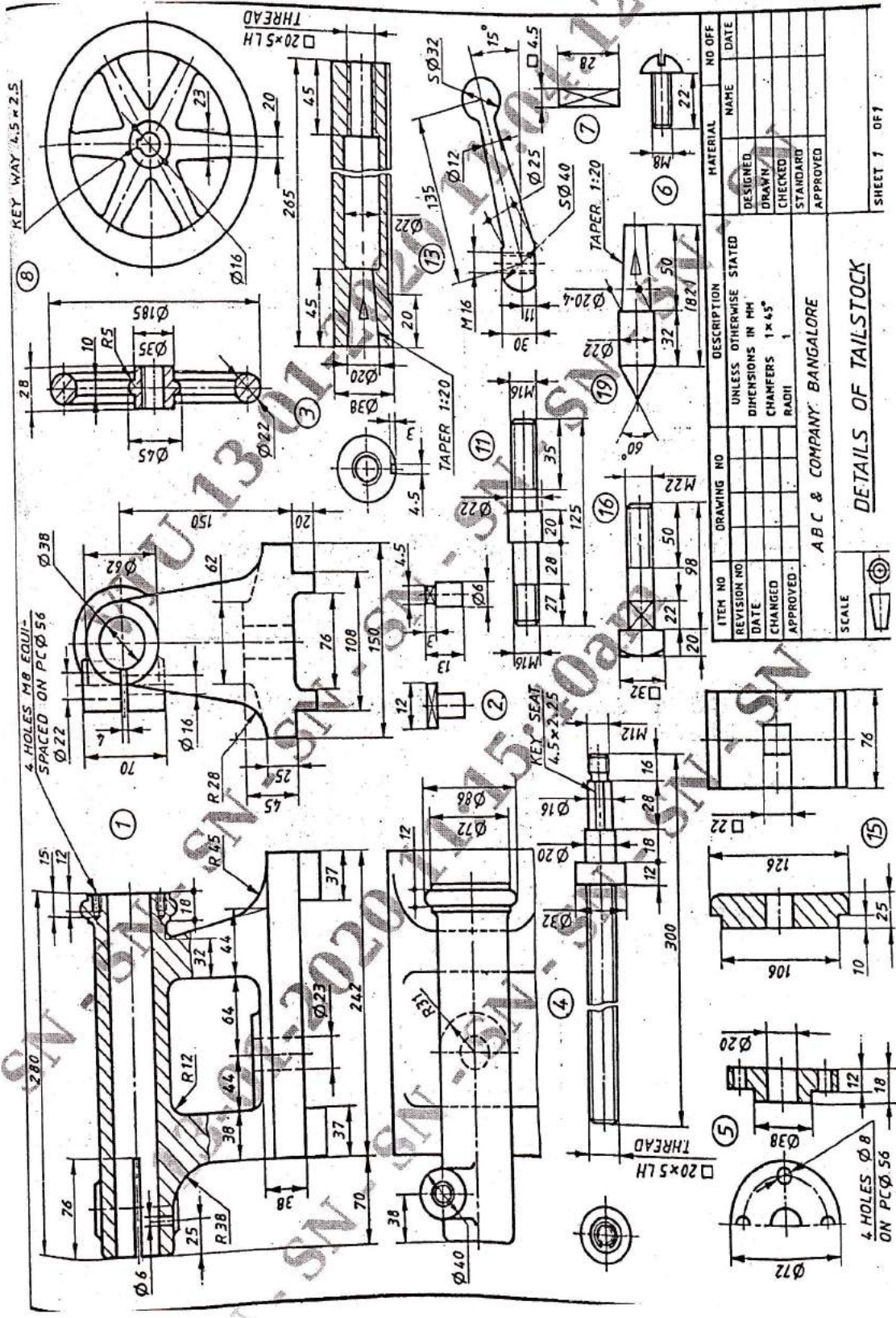


Figure 2: Details of Screw Jack

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



ITEM NO	DRAWING NO	DESCRIPTION	MATERIAL	NO OFF
REVISION NO		UNLESS OTHERWISE STATED		
DATE		DIMENSIONS IN MM		
CHANGED		CHAFFERS 1x45°		
APPROVED		RADI		
ABC & COMPANY, BANGALORE				
SCALE				
DETAILS OF TAILSTOCK				

SHEET 7 OF 1

Figure 2: Details of Tail Stock