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Third/Fourth Semester B.E. Degree Examination, December 2018

(ME/MA)

COMPUTER AIDED MACHINE DRAWING

Time: 3 Hours

Max. Marks: 80

- Note:**
1. Answer any ONE question from each of the parts A, B and C.
 2. Use **FIRST ANGLE** projection only.
 3. Missing data if any may suitably 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 other 2 views in 2D.**

PART - A

- Q.No.1** Figure.1 Shows a Machine Component. Draw the following Views (a) Front View (b) Top View. **(15 Marks)**

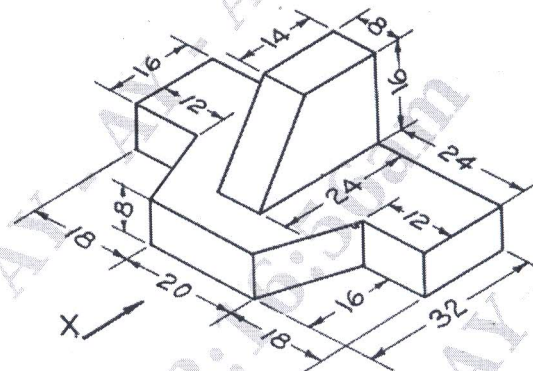


Figure.1

- Q.No.2** Draw the following External thread profiles. (minimum three threads)
 a) Square thread b) ACME thread of pitch 50 mm **(15 Marks)**

PART - B

- Q.No.3** Draw sectional Front View & Top View of the Double Riveted Chain Butt Joint with double strap, taking thickness $t = 10\text{mm}$. Indicate dimensions. (Minimum three rows) **(15 Marks)**
- Q.No.4** Draw sectional Front View & Side View of a Oldham's Coupling to connect two shafts of diameter 20mm. Indicate dimensions. **(15 Marks)**

PART - C

- Q.No.5** Details of PLUMMER BLOCK is shown in following Figure 2. Assemble the parts and draw the following views.
 a. Left half sectional front view b. Top View. **(50 Marks)**

Q.No.6 Details of TAILSTOCK of Lathe is shown in following Figure 3. Assemble the parts and draw the following views.

a. Sectional Front View

b. Top View.

(50 Marks)

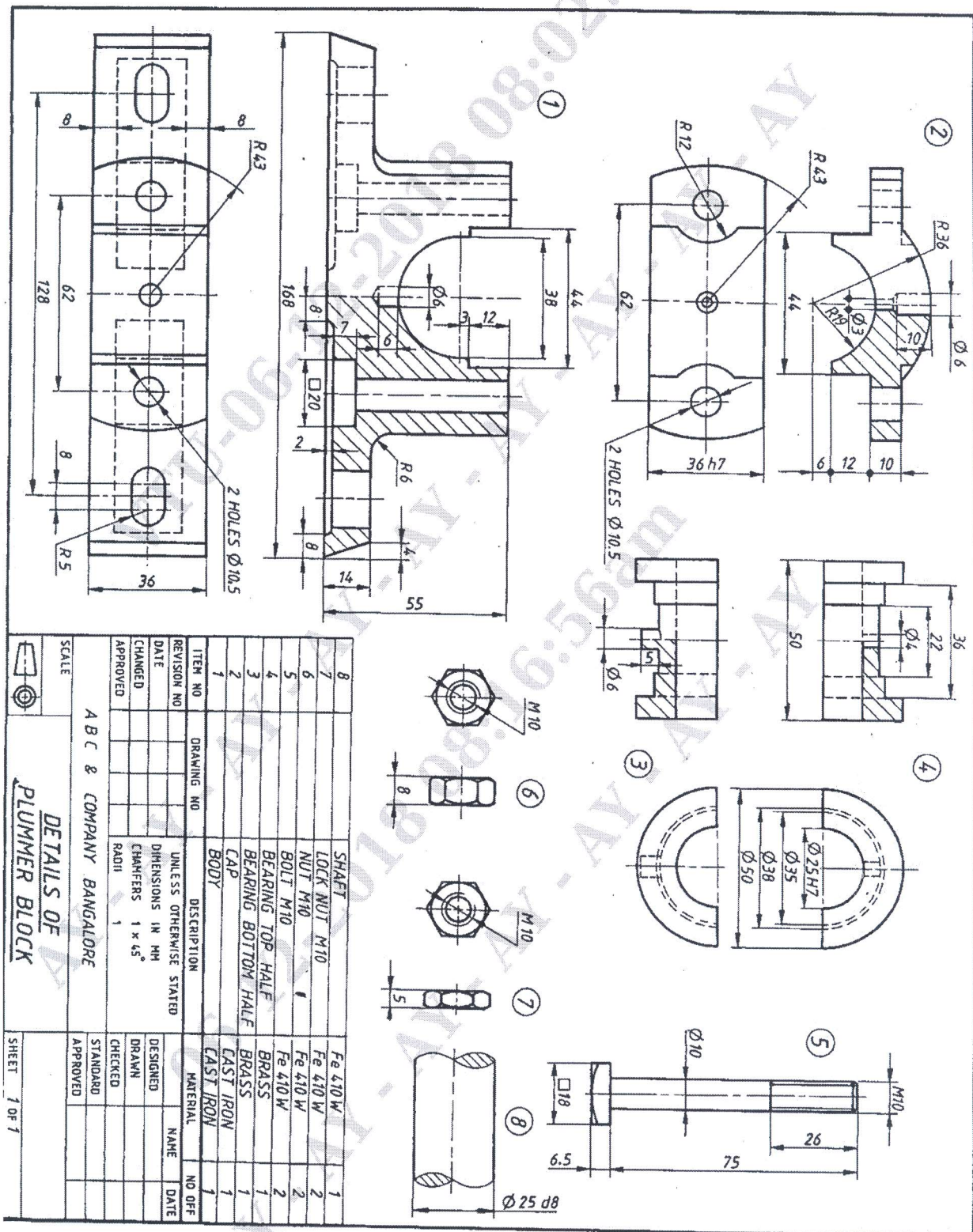
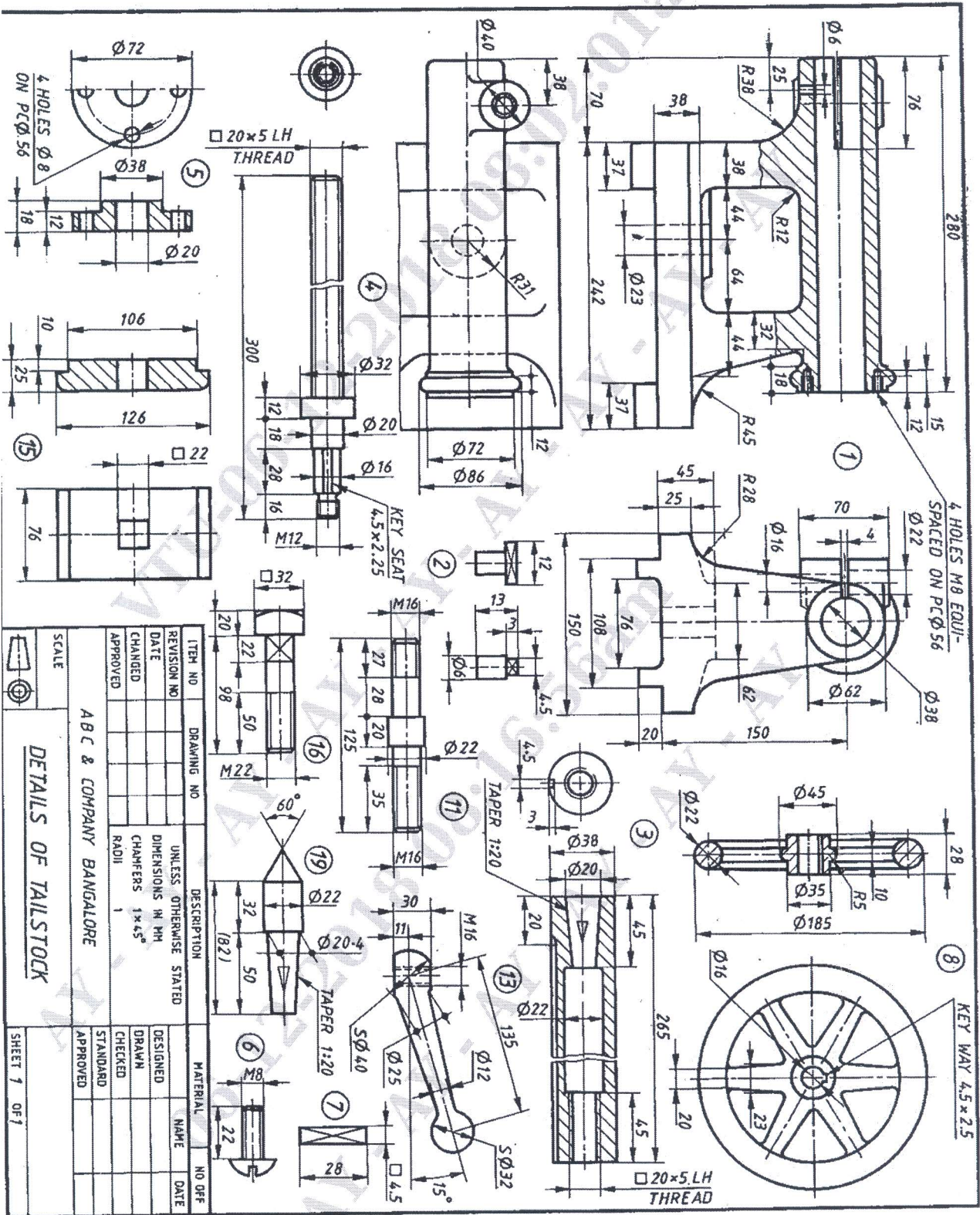


Figure 2. PLUMMER BLOCK



ITEM NO	DRAWING NO	DESCRIPTION	MATERIAL	NO OF
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				

REVISION NO	DATE	UNLESS OTHERWISE STATED	DESIGNED	NAME	DATE
CHANGED		DIMENSIONS IN MM	DRAWN		
APPROVED		CHANGERS 1x45°	CHECKED		
		RADI	STANDARD		
			APPROVED		

SCALE:

DETAILS OF TAILSTOCK

ABC & COMPANY BANGALORE

SHEET 1 OF 1

Figure 3 – TAILSTOCK

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Time: 3 Hours

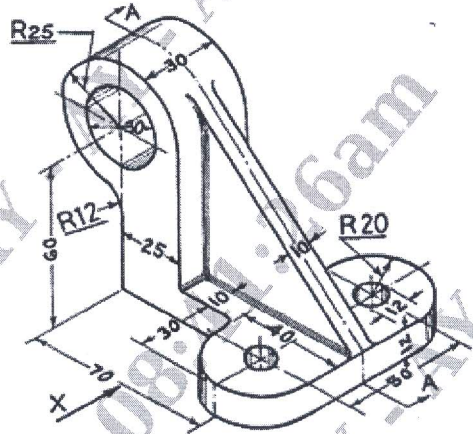
Max. Marks: 80

- Note:** 1. Answer any ONE question from each of the parts A, B and C.
 2. Use **FIRST ANGLE** projection only.
 3. Missing data if any may suitably 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 other 2 views in 2D.**

PART - A

- Q.No.1** Draw the following views for the given machine component.
 a) Sectional Front View b) Top view and

(15 Marks)



- Q.No.2** Draw the two views of Hexagonal Headed Bolt M25 x 100 and a thread length of 60 mm, with a hexagonal nut. Indicate all proportion and actual dimensions. **(15 Marks)**

PART - B

- Q.No.3** Draw sectional Front View & Top View of the double riveted Chain Type Lap Joint, taking thickness $t = 9$ mm. Indicate dimensions. (Minimum three rows) **(15 Marks)**
- Q.No.4** Draw sectional Front View and a view looking from socket end of a SOCKET and SPIGOT COTTER JOINT used for joining two rods of diameter 20mm. Indicate dimensions. **(15 Marks)**

PART - C

- Q.No.5** Details of "MACHINE VICE" is shown in following figure 1. Assemble the parts and draw the following views. i. Sectional front view ii. Top view. **(50 Marks)**

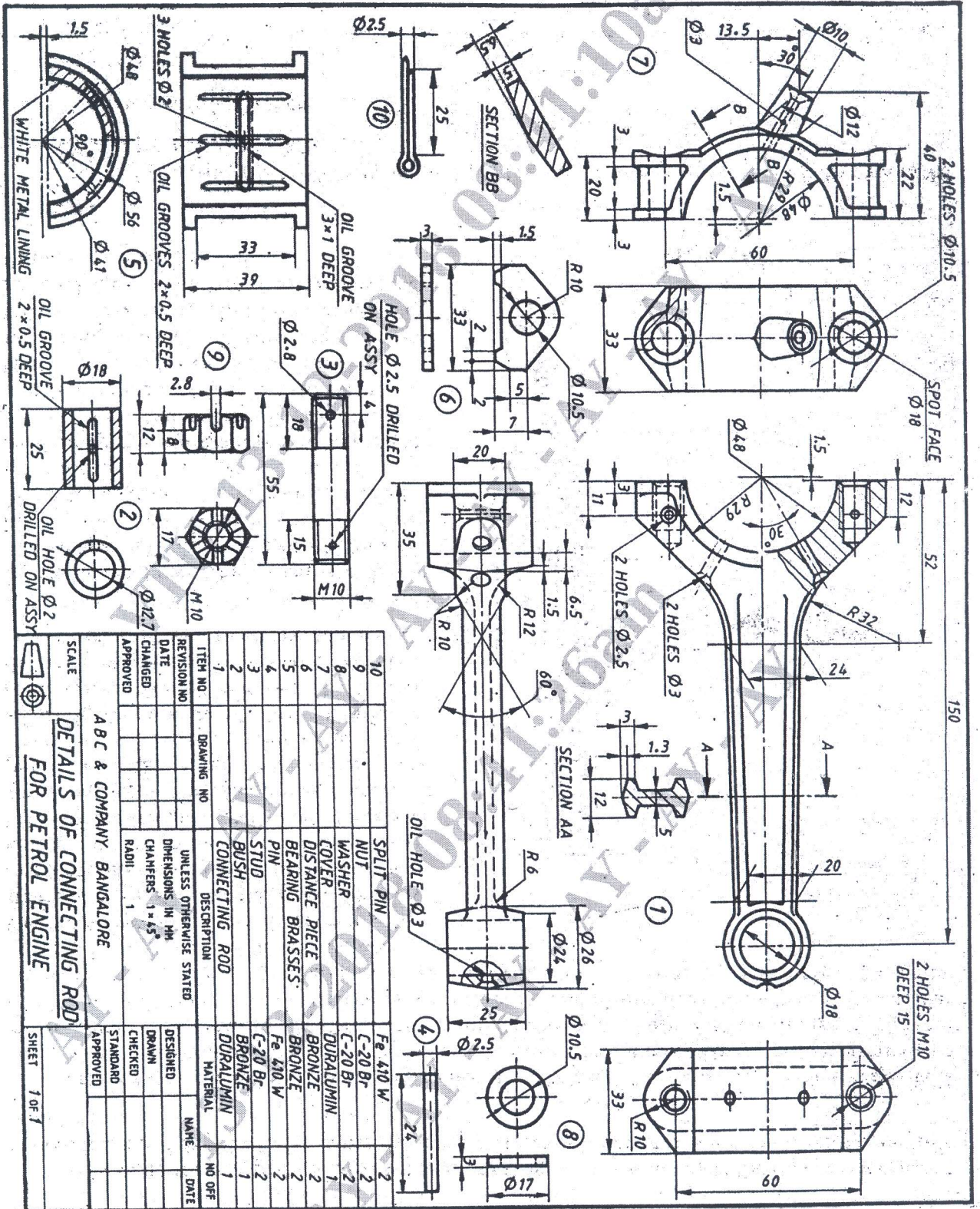


Figure 2. "I C ENGINE CONNECTING ROD"