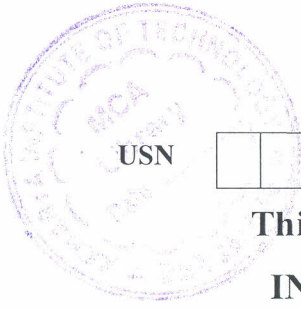




CBCS 2022 – SCHEME

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Third Semester B.E. Degree Examination, Dec.2024/Jan.2025

INTRODUCTION TO MODELLING AND DESIGN FOR MANUFACTURING

Time: 3 Hours

Max.Marks:100

Note: 1. Answer all questions

2. Use first angle projections only

3. All the dimensions are in mm

4. If any data is missing, it may be suitably assumed and mentioned.

Module - 1		
Q. No.		Marks
1	Draw the profile of Isometric screw thread of pitch 40mm and diameter $d=20\text{mm}$. Show at least two threads.	20
Module - 2		
2	The detail parts of the knuckle joint are shown in Fig Q2. Assemble all the parts and draw the sectional front views.	30
Module - 3		
3	Fig. Q3 shows the part details of a Machine Vice. Assemble the parts and show the sectional front view and top view.	50

Examiner 1:

Name:

Signature:

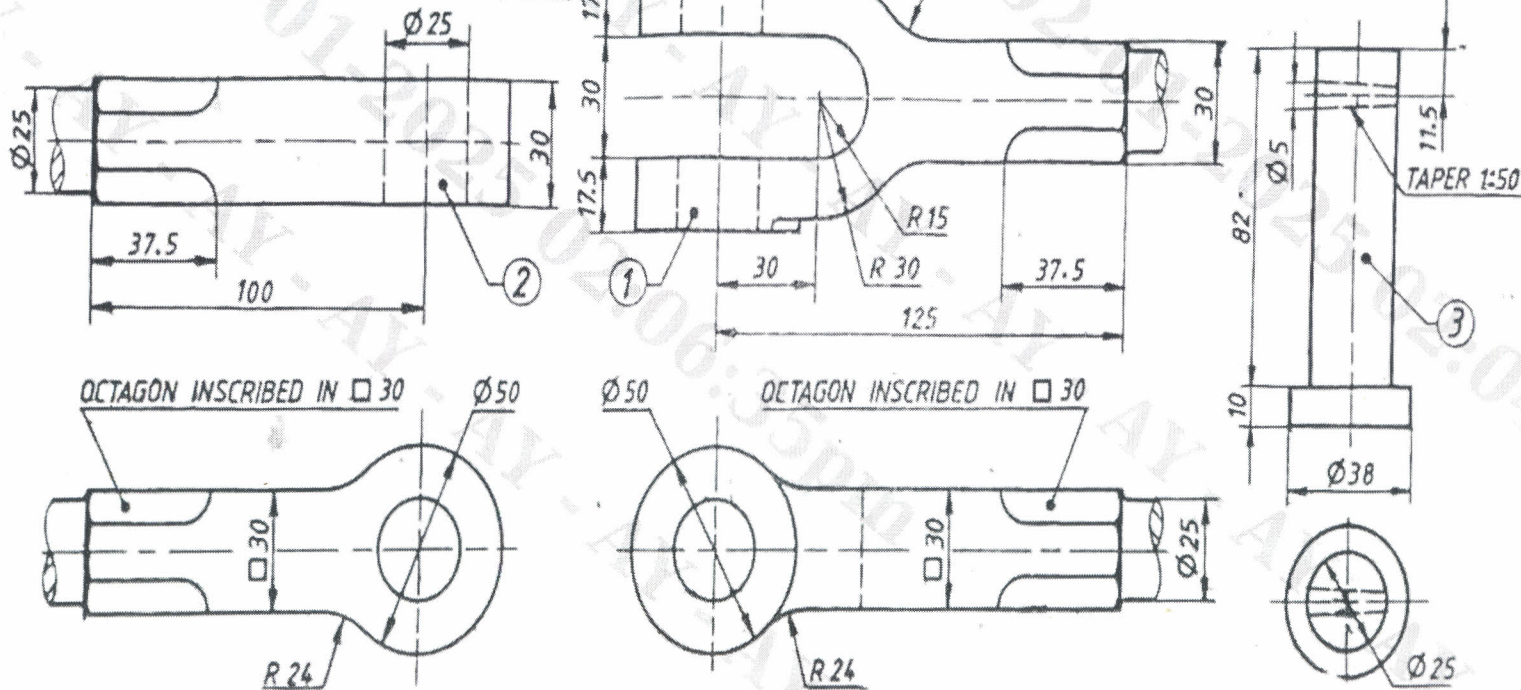
Examiner 2:

Name:

Signature:

5	TAPER PIN	Fe-410W	1
4	COLLAR	Fe-410W	1
3	PIN	Fe-410W	1
2	EYE	Fe-410W	1
1	FORK	Fe-410W	1
PART NO	DESCRIPTION	MATERIAL	NO OFF

ALL UNMENTIONED FILLETS AND ROUNDS RADII 3mm



Details of a Knuckle Joint

Fig. Q2

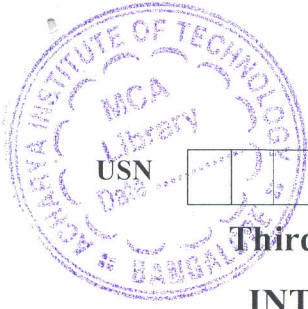
Examiner 1:
Name:
Signature:

Examiner 2:
Name:
Signature:

Fig. 10.23 Details of machine vice



Examiner 1:
Name:
Signature:



CBCS 2022 – SCHEME

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Third Semester B.E. Degree Examination, Dec.2024/Jan.2025

INTRODUCTION TO MODELLING AND DESIGN FOR MANUFACTURING

Time: 3 Hours

Max.Marks:100

- Note:**
1. Answer all questions
 2. Use first angle projections only
 3. All the dimensions are in mm
 4. If any data is missing, it may be suitably assumed and mentioned.

Module - 1		
Q. No.		Marks
1	Draw the profile of Isometric screw thread of pitch 40mm and diameter d=20mm.show at least two threads.	20
Module - 2		
2	The part details of a socket and spigot joint to connect two rods of diameter 20mm are shown in Fig. Q2. Assemble the parts and show the sectional front view and side view looking from socket End.	30
Module - 3		
3	Fig. Q3 shows the details of a Tail stock. Assemble the parts and show the 1. Sectional front view and 2. Top view	50

Examiner 1:
Name:
Signature:

Examiner 2:
Name:
Signature:

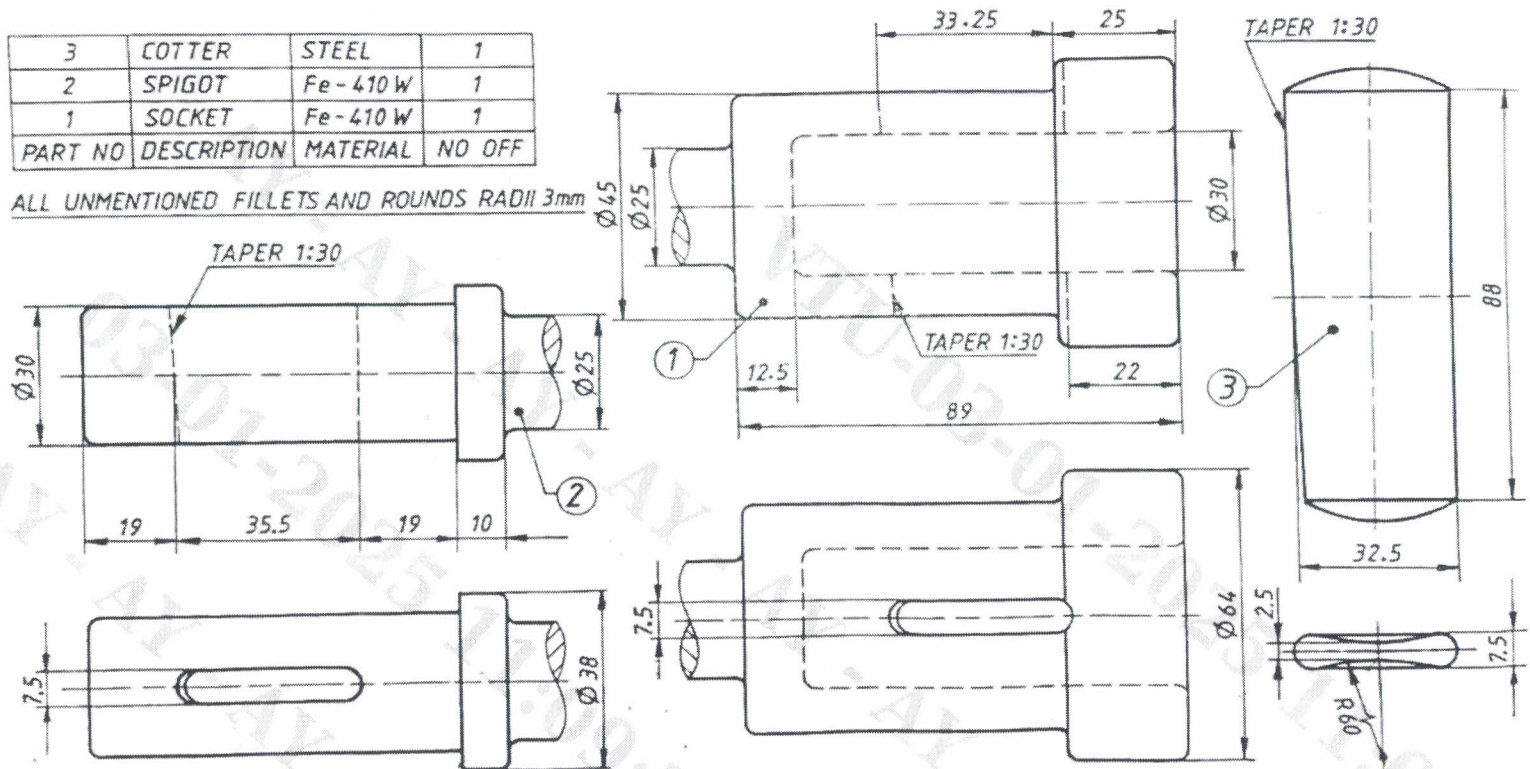


Fig. Q2

Examiner 1:
Name:
Signature:

Examiner 2:
Name:
Signature:

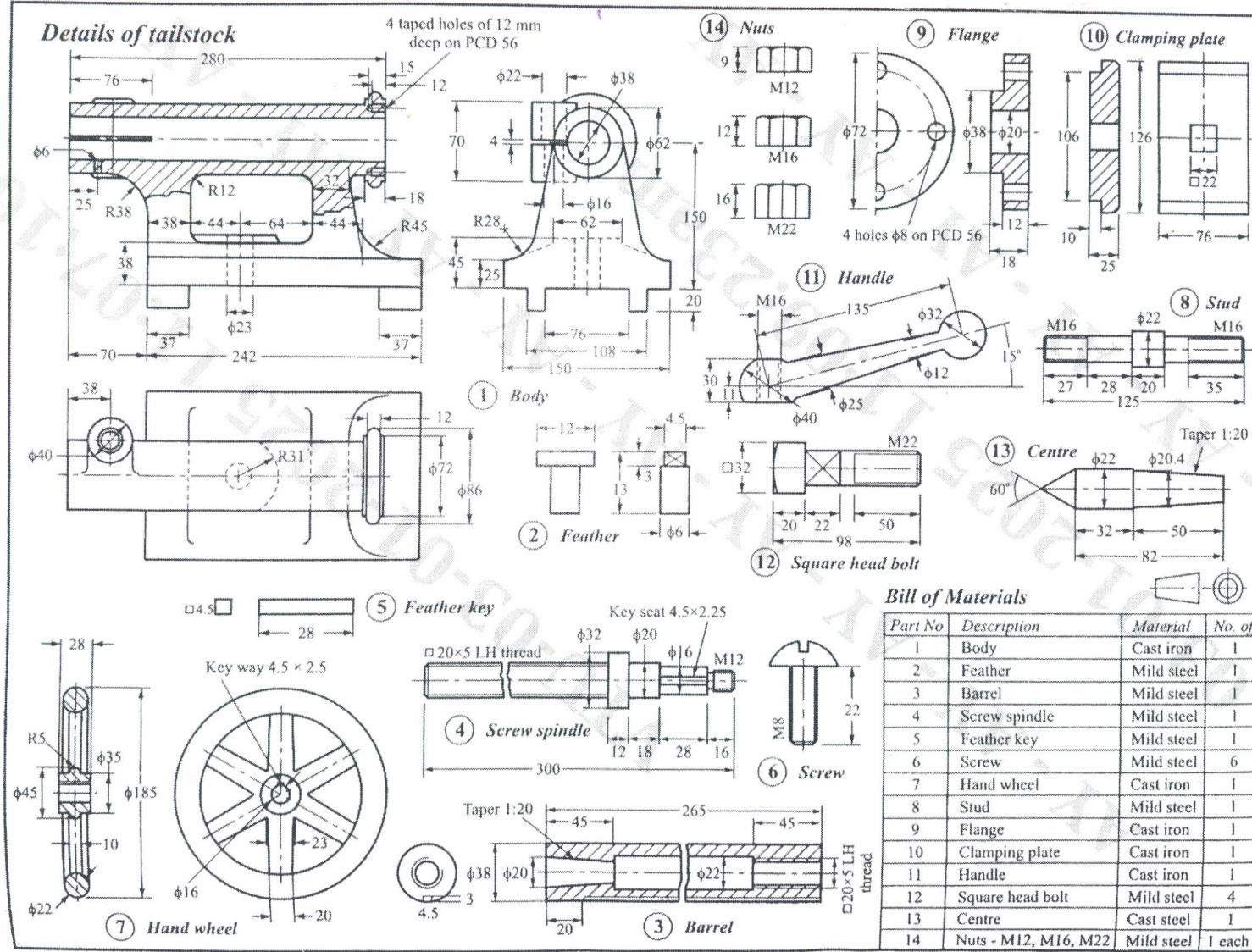


Fig. Q3

Examiner 2:
Name:
Signature:

Examiner 1:
Name:
Signature: