CODE NO: R09220305	R09	SET No - 1

II B.TECH - II SEMESTER EXAMINATIONS, APRIL/MAY, 2011
MACHINE DRAWING
(COMMON TO AUTOMOBILE ENGINEERING, MECHANICAL ENGINEERING, MECHATRONICS)

Time: 3hours **Max. Marks: 75**

Answer any TWO questions from PART – A
PART – B is compulsory

- - -

PART – A

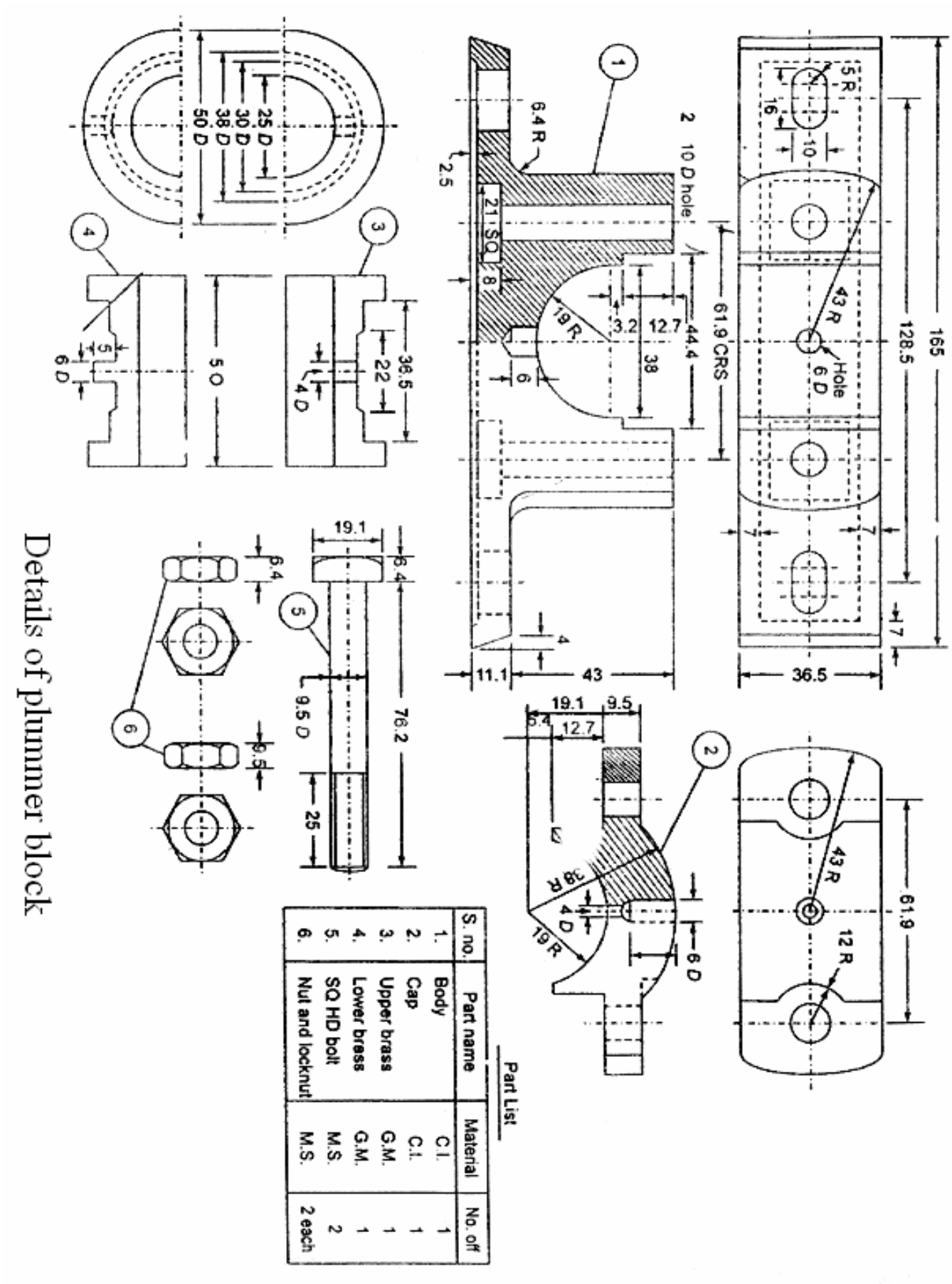
1. Draw the double riveted double strap zig – zag butt joint to join 12 mm plates. [15]

2. Sketch the following with drawing proportions
   a) Buttress thread.
   b) Square thread.
   c) Worm thread. [15]

3. Represent two views of hexagonal nut and square nut with proportions take the diameter of the bolt as 30 mm. [15]

PART – B

4. Figure gives the part drawings of Plummer black. Assemble all the parts and draw the following assembled views:
   a) Sectional front view
   b) Top view.



Details of plummer block

Part List

S. no.	Part name	Material	No. off
1.	Body	C.I.	1
2.	Cap	C.I.	1
3.	Upper brass	G.M.	1
4.	Lower brass	G.M.	1
5.	SQ HD bolt	M.S.	2
6.	Nut and locknut	M.S.	2 each

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CODE NO: R09220305	R09	SET No - 2

II B.TECH - II SEMESTER EXAMINATIONS, APRIL/MAY, 2011
MACHINE DRAWING
(COMMON TO AUTOMOBILE ENGINEERING, MECHANICAL ENGINEERING, MECHATRONICS)

Time: 3hours **Max. Marks: 75**

Answer any TWO questions from PART – A
PART – B is compulsory

- - -

PART – A

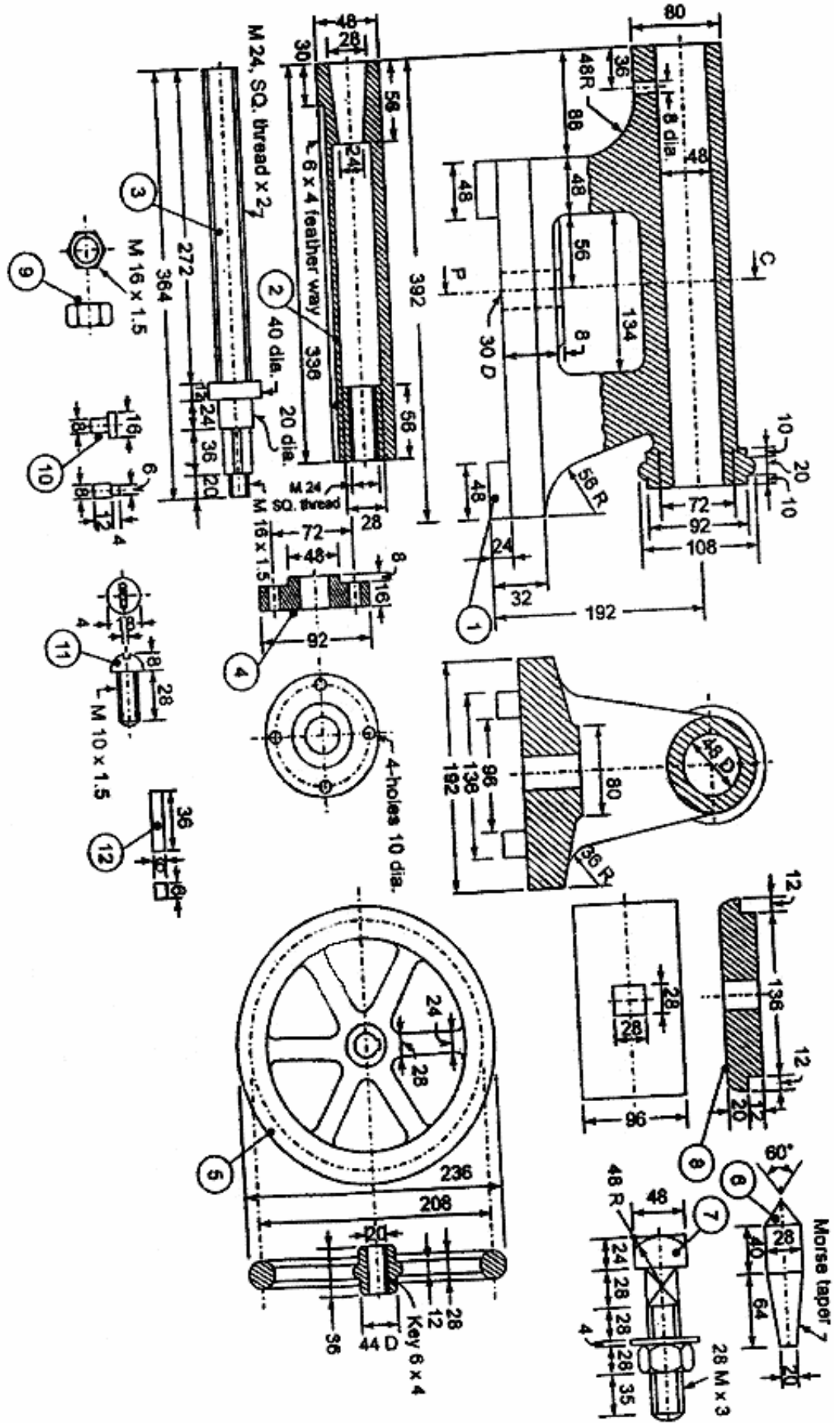
1. Draw a proportionate diagram of Double riveted double strap chain type butt joint two connect plate of 20 mm size. [15]

2. Draw two views of the Protected flange coupling to connect two shafts of 50 mm diameter. [15]

3. Draw two views of the Solid flange coupling to connect to shafts of 25 mm diameter. [15]

PART – B

4. Draw the following view of the given tail stock details.
   a) Sectional Front View
   b) Side view from left.



Details of tail-stock

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CODE NO: R09220305 | R09 | SET No - 3

II B.TECH - II SEMESTER EXAMINATIONS, APRIL/MAY, 2011
MACHINE DRAWING
(COMMON TO AUTOMOBILE ENGINEERING, MECHANICAL ENGINEERING, MECHATRONICS)

Time: 3hours **Max. Marks: 75**

Answer any TWO questions from PART – A
PART – B is compulsory

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PART – A

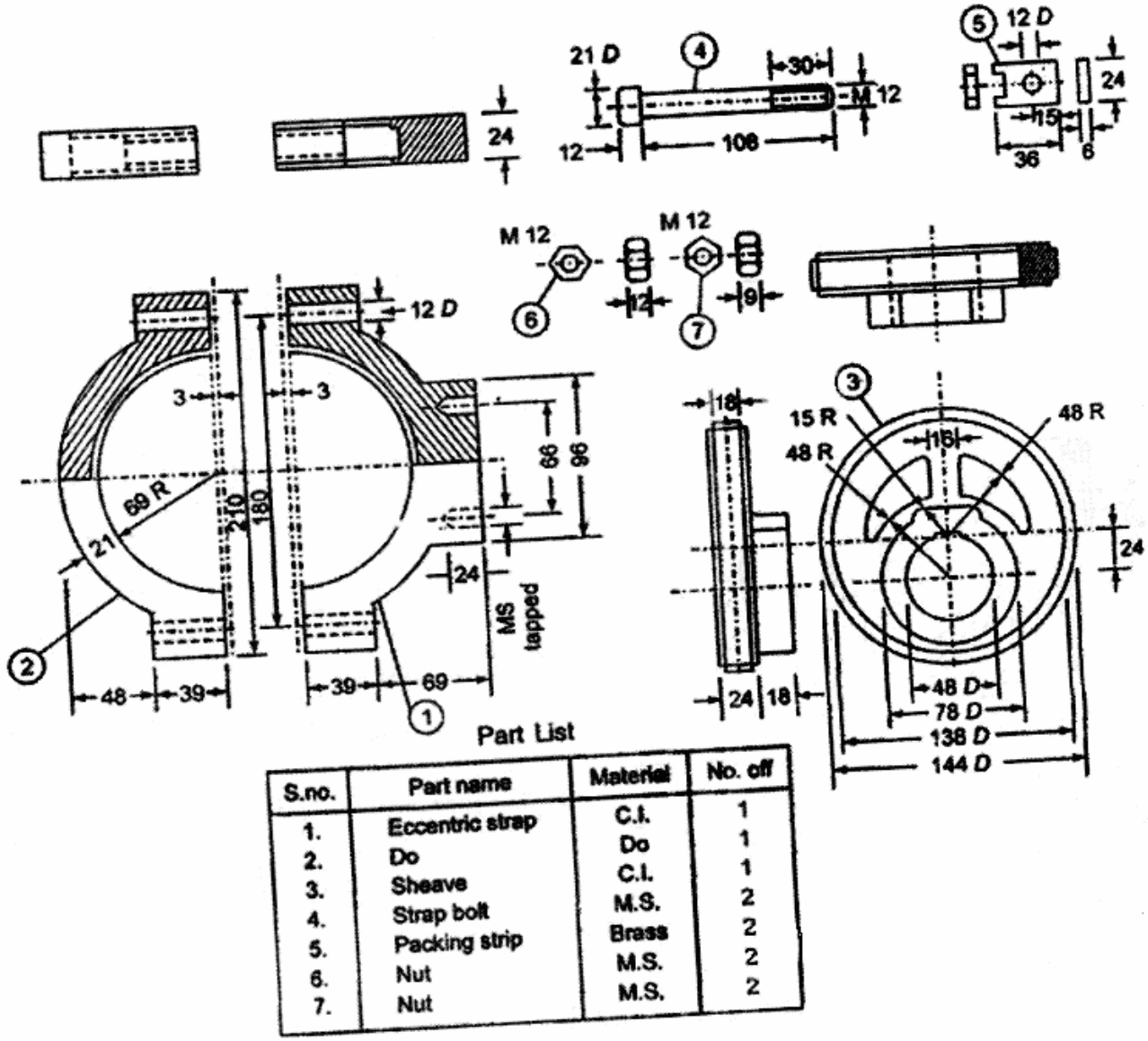
1. Draw sectional front view and top view of double riveted, single strap, chain butt joint to join plates of thickness 10 mm. [15]

2. Draw gib and cotter joint suitable for joining 40 mm square rods. [15]

3. Draw two views of a Food step bearing for a shaft 100 mm diameter. [15]

PART – B

4. Draw the following views at assembly of eccentric mechanism.
   a) Half Sectional Front View
   b) Side view from left.



Part List

S.no.	Part name	Material	No. off
1.	Eccentric strap	C.I.	1
2.	Do	Do	1
3.	Sheave	C.I.	1
4.	Strap bolt	M.S.	2
5.	Packing strip	Brass	2
6.	Nut	M.S.	2
7.	Nut	M.S.	2

Eccentric (Details)

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CODE NO: R09220305 | R09 | SET No - 4

II B.TECH - II SEMESTER EXAMINATIONS, APRIL/MAY, 2011
MACHINE DRAWING
(COMMON TO AUTOMOBILE ENGINEERING, MECHANICAL ENGINEERING, MECHATRONICS)

Time: 3hours **Max. Marks: 75**

Answer any TWO questions from PART – A
PART – B is compulsory

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PART – A

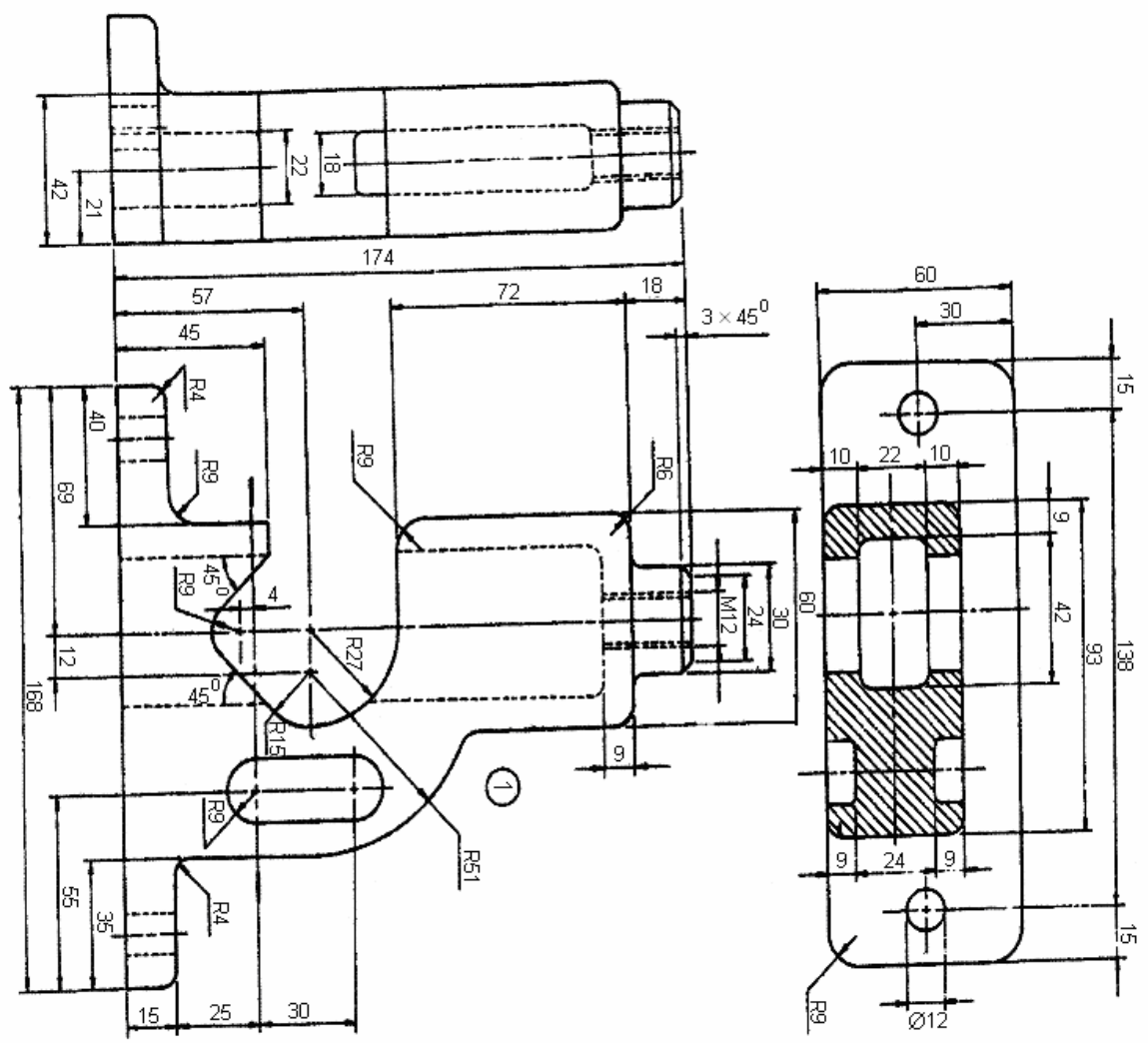
1. Draw two views of a Single strap butt joint of two rows zig – zag to connect two plates of 9 mm thick. [15]

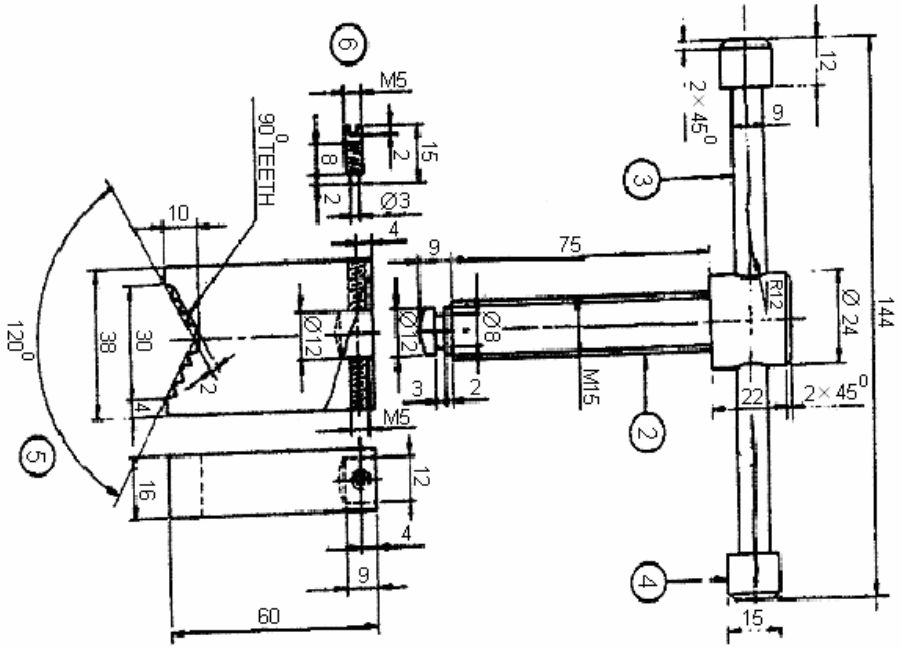
2. Sketch a Knuckle joint showing sectional front view and top view for connecting two rods of 40 mm diameter. [15]

3. Draw two views of the Flexible flange coupling to join two shafts of 30 mm diameter. [15]

PART - B

4. Draw the following views of assembly of pipe vice.
   a) Sectional front view.
   b) Top view.





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