

2. An isometric view of a Flexible Coupling is shown in Fig. 2. Draw the top half sectional elevation of the coupling.

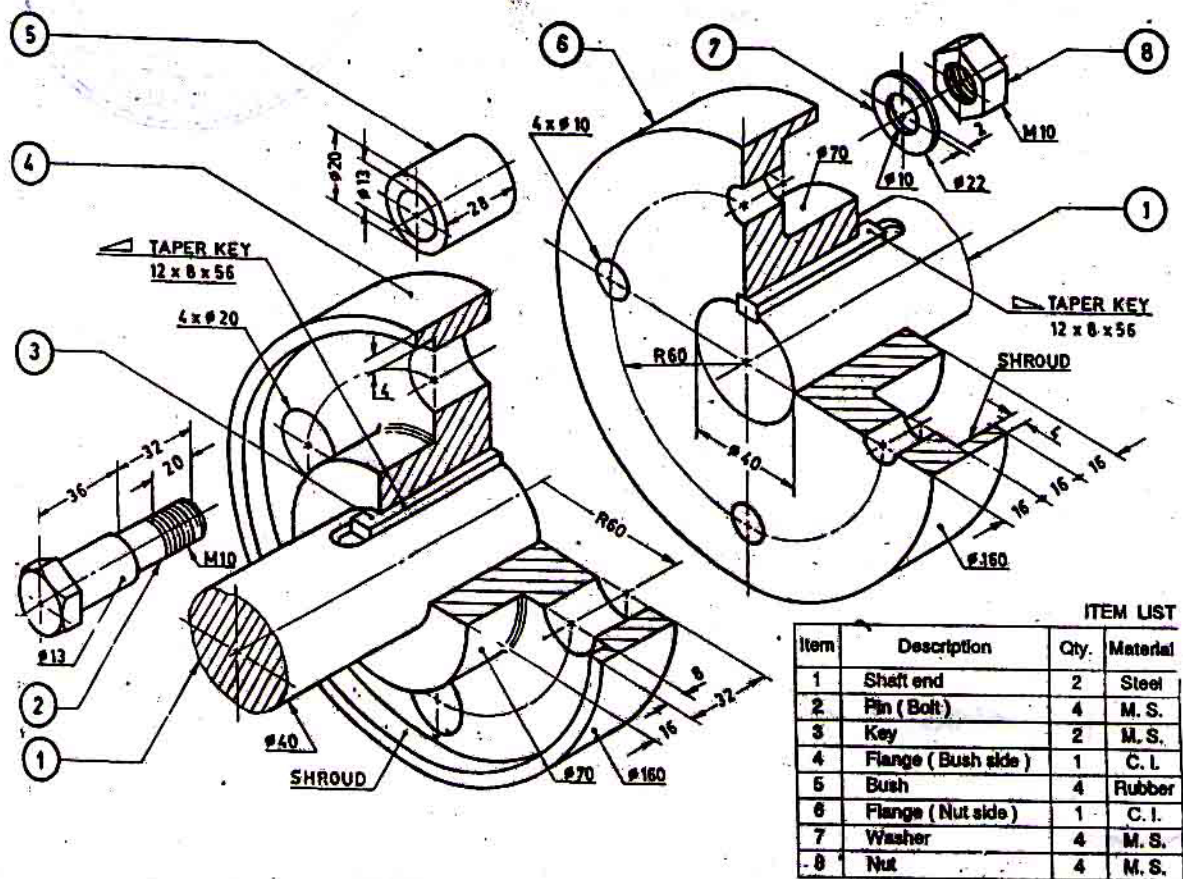


Fig. 2

(20 marks)

3. Dimensions of a hole and its mating shaft are given according to shaft basis systems :

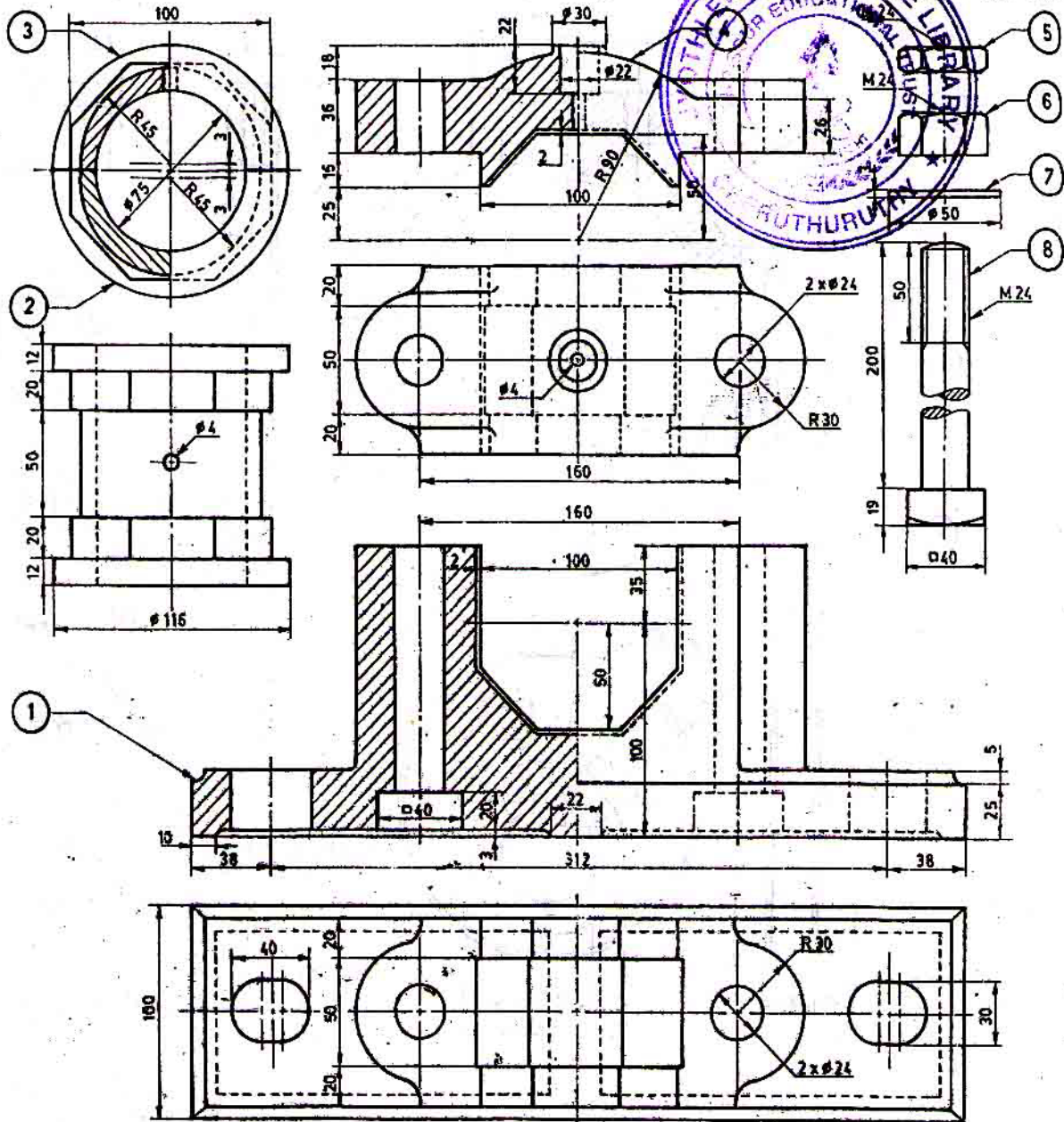
Shaft : ϕ 30 mm Hole : ϕ 30.092 mm
 : ϕ 29.979 mm ϕ 30.040 mm.

Find the values of hole and shaft tolerances and clearances and check the calculated dimensions. Also represent the dimensions in a diagram schematically.

(30 marks)

Or

4. Fig. 3 shows details of a plummer block for a 75 mm diameter shaft. Assemble all the parts and draw the left half sectional elevation. (30 marks)



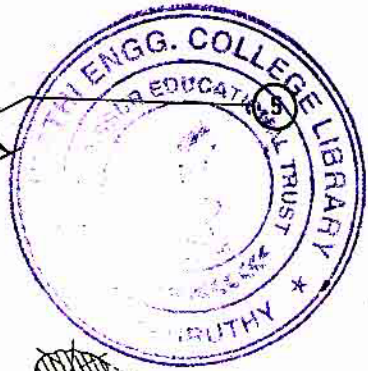
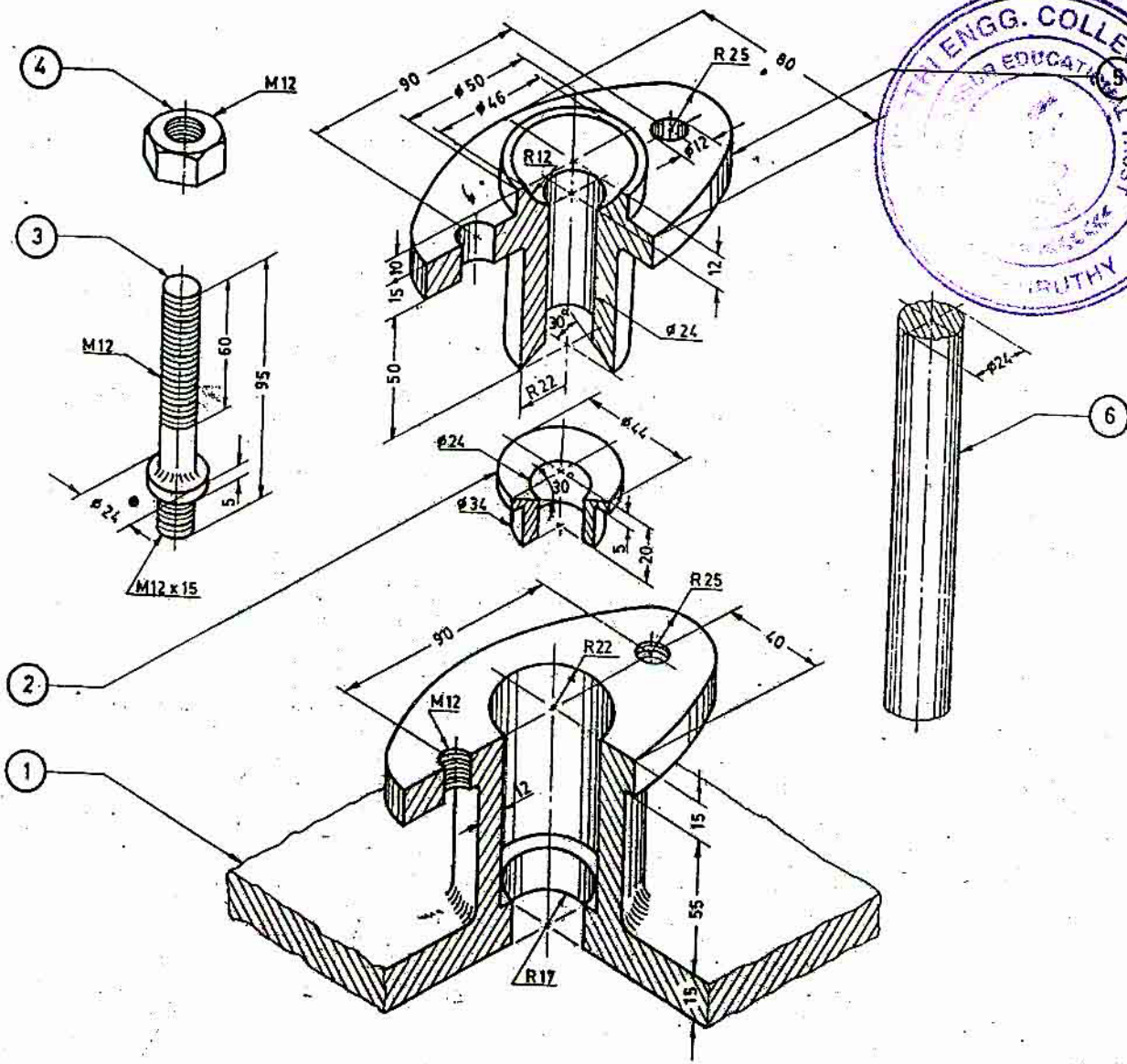
ITEM LIST

Item	Description	Qty.	Material
1	Block	1	C. I.
2	Brass (Bottom)	1	Brass
3	Brass (Top)	1	Brass
4	Cover	1	C. I.
5	Locknut	2	M. S.
6	Nut	2	M. S.
7	Washer	2	M. S.
8	Bolt	2	M. S.

Fig. 3

Turn over

6. Disassembled isometric view of a stuffing box is shown in Fig. 5. Assemble the parts and draw a left half sectional elevation and a plan of the stuffing box. (50 marks)



ITEM LIST

Item	Description	Qty.	Material
1	Body	1	C. I.
2	Gland bush	1	Brass
3	Stud	2	M.S.
4	Nut	2	M. S.
5	Gland	1	C. I.
6	Piston rod	1	Steel

Fig. 5