

Hall Ticket Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Code No. : 13512 S

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (Mech. Engg. :CBCS) III-Semester Supplementary Examinations, June-2019

Machine Drawing

Time: 3 hours

Max. Marks: 60

Note: Answer ALL questions in Part-A and Part-B

Part-A (10 × 2 = 20 Marks)

1. Distinguish between I angle and III angle projection with illustration of quadrants
2. List out important contents of drawing sheet
3. Explain with the help of simple sketches
i) Progressive dimensioning ii) Chain dimensioning
4. State different types of foundation bolts and sketch any one type of foundation bolt.
5. Sketch sectional front view and top view of single riveted lap joint for 9mm thick plates. Show all dimensions
6. Draw the sectional front view of the component shown in Fig. 1

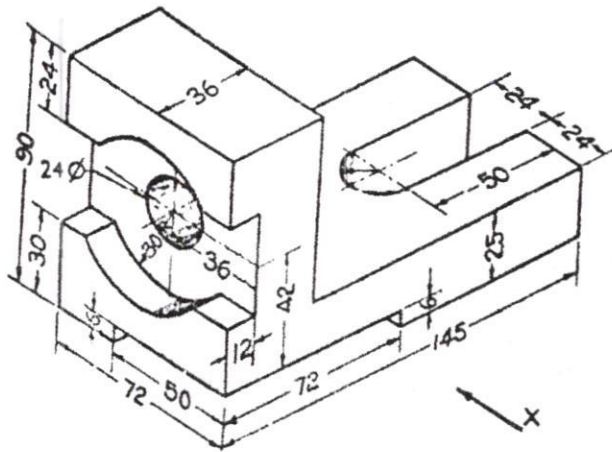


Fig. 1

7. Sketch a flanged coupling to join two shafts of diameter, $D=25\text{mm}$. indicate the proportions of hub, flange, key etc., in terms of D .
8. Sketch an isometric view of a gib-head key used on a shaft of diameter ' D '
9. Sketch a knuckle joint for connecting two 30mm diameter shafts and show all proportional dimensions.
10. Sketch flanged pipe joint

Part-B (40 Marks)

11. Assemble the parts of an eccentric shown in Fig.2 below and draw the Half-sectional front view with upper half in section and right side view. Table1 below gives the details of the parts. 40

Part No	Name of the part	Quantity	Material
1	Straps	1+1	C.I.
2	Sheave	1	C.I.
3	Shim	2	Brass
4	Bolts with nuts	2	C-30

Contd...2

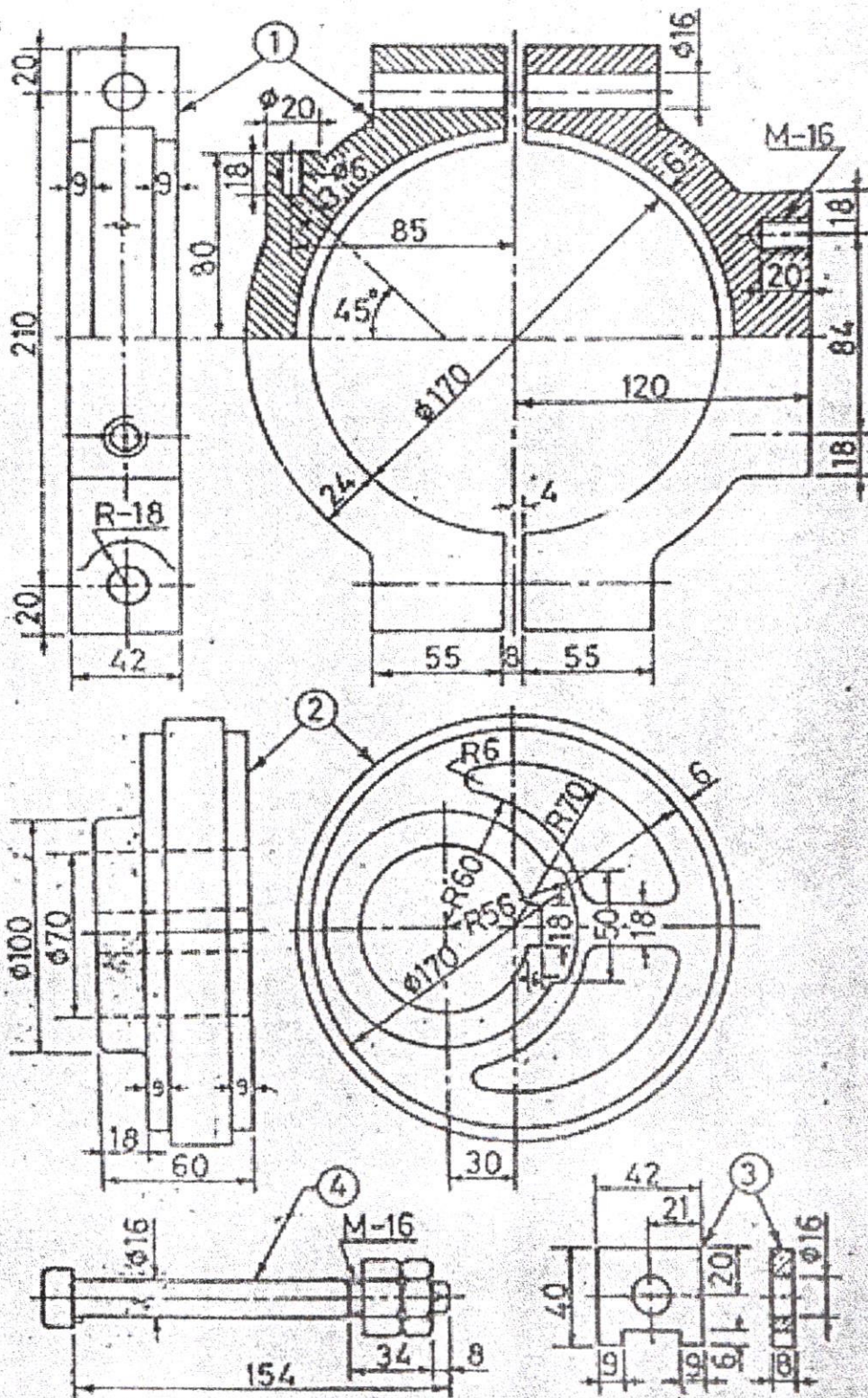


Fig.2