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Code No. : 13504

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD

B.E. (Mech. Engg. : CBCS) III-Semester Main Examinations, December-2017

Machine Drawing

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

1. List four rules for dimensioning.
2. Show the format of a drawing sheet with grid reference system
3. Name the machine elements which do not require hatching when sectioned longitudinally.
4. Draw the front view of the part shown in Fig.1 below.

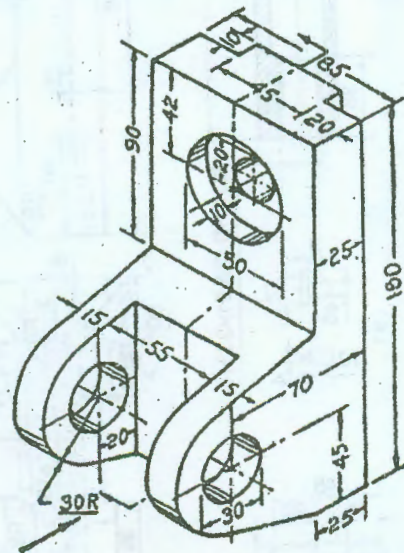


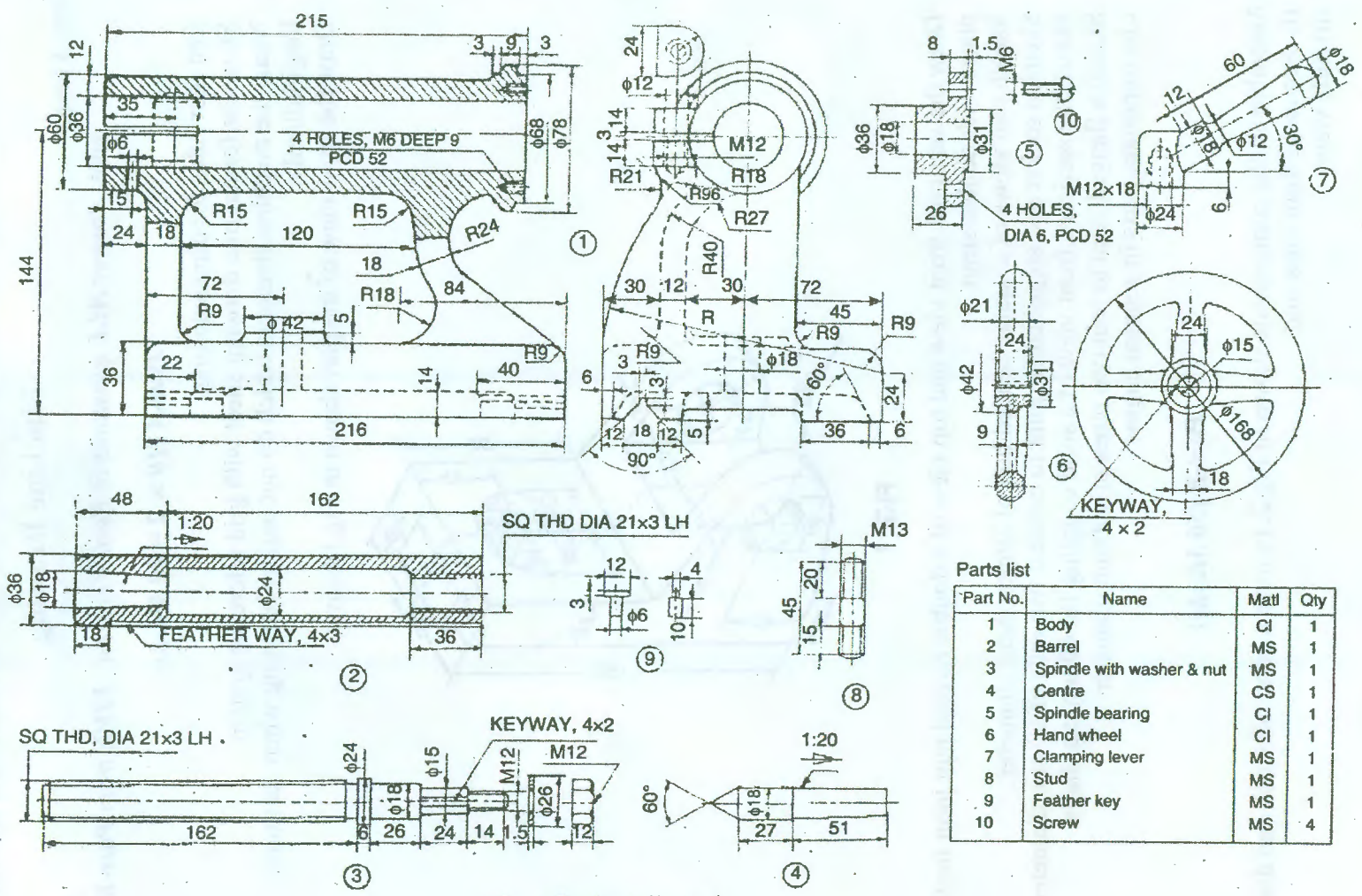
FIG. 1

5. Draw the sectional front view and top view of a double riveted butt joint for 9mm thick plates with double strap.
6. Sketch two views of a square headed bolt of 20mm shank diameter.
7. Sketch a socket and spigot cotter joint to connect two rods of 50 mm diameter.
8. Sketch the sectional front view of a solid coupling for 60mm dia shafts.
9. Sketch a flanged joint to join two pipes of 100mm diameter.
10. List important parts in a steam engine.

Part-B (50 Marks)

11. Assemble all the components shown in Fig.2. to form a lathe tail stock and draw the following
 - (i) Sectional front view and
 - (ii) Side view

(Turn overleaf for Fig.2)



Parts list

Part No.	Name	Matl	Qty
1	Body	CI	1
2	Barrel	MS	1
3	Spindle with washer & nut	MS	1
4	Centre	CS	1
5	Spindle bearing	CI	1
6	Hand wheel	CI	1
7	Clamping lever	MS	1
8	Stud	MS	1
9	Feather key	MS	1
10	Screw	MS	4

Fig. 2 Lathe tail stock
