CBCS SCHEME

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17ME36A/17ME46A/17MA36

Third/Fourth Semester B.E. Degree Examination, June/July 2019
(ME/MA)
COMPUTER AIDED MACHINE DRAWING

Time: 3 Hours | Max. Marks: 100

Note: 1. Answer any ONE question from each of the parts A, B and C.
2. Use **FIRST ANGLE** projection only.
3. If any data is missing it may be suitably assumed and mentioned.
4. All the calculations should be on answer sheet supplied.
5. All the dimensions are in mm.
6. Drawing instruments may or may not be used for sketching.
7. **Part C Assembled View should be in 3D and other 2 views in 2D.**

PART – A

Q.No.1 Draw (i) the sectional view from the front, (ii) the view from above and (iii) the view from right of the shaft bracket shown in Fig. 1. **(25 Marks)**

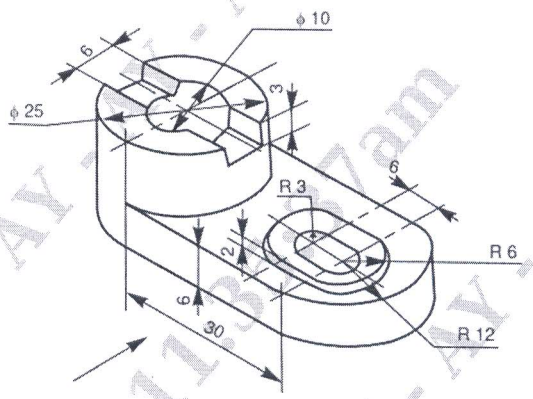

Fig. 1: Shaft bracket

Q.No.2 Draw the three views of an ISO threaded square head bolt 100mm long, 25mm diameter and thread length of 60mm and square assembly in the axis horizontal position. Show the assembly of bolt and nut in the view across corners. Indicate all actual dimensions. **(25 Marks)**

PART - B

Q.No.3 Draw top and sectional front view of double riveted butt chain riveting with single cover for 9mm thick plate. Use snap head rivets and show three rivets in each row, indicate all the dimensions. **(25 Marks)**

Q.No.4 Draw sectional front view and side view of a protected type flange coupling to connect two rods of diameter 20mm, indicate all dimensions. **(25 Marks)**

PART - C

Q.No.5 Figure 2 shows the details of a screw jack. Assemble the parts of the screw jack and show the following views.
a. Half sectional front view showing the right half in section. b. Top view. **(50 Marks)**

Q.No.6 Figure 3 shows the part drawing of a "RAMS BOTTOM SAFETY VALVE". Assemble parts and show the following views. (a) Sectional front view (b)Top view. **(50 Marks)**

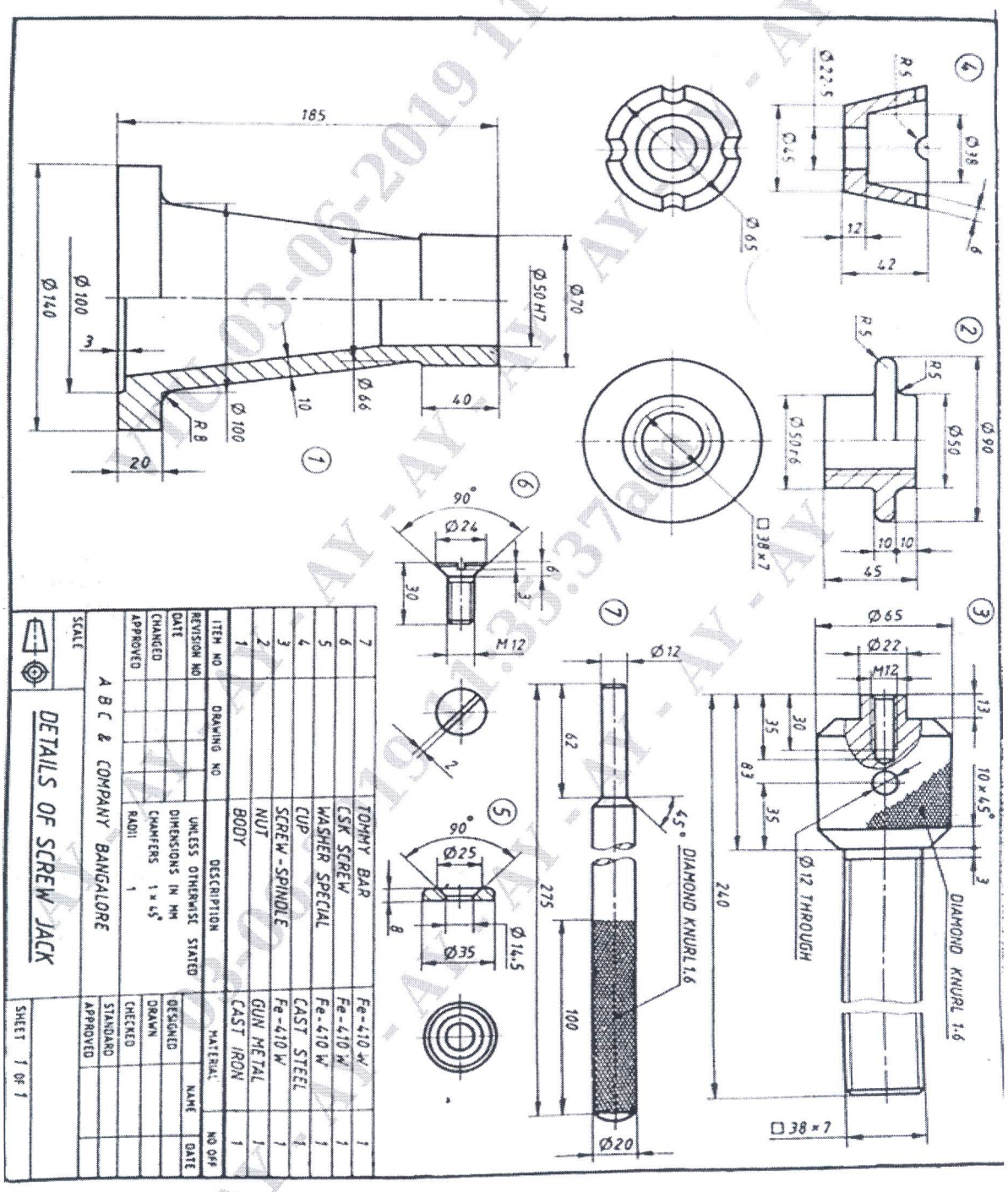

Figure 2: Details of screw jack

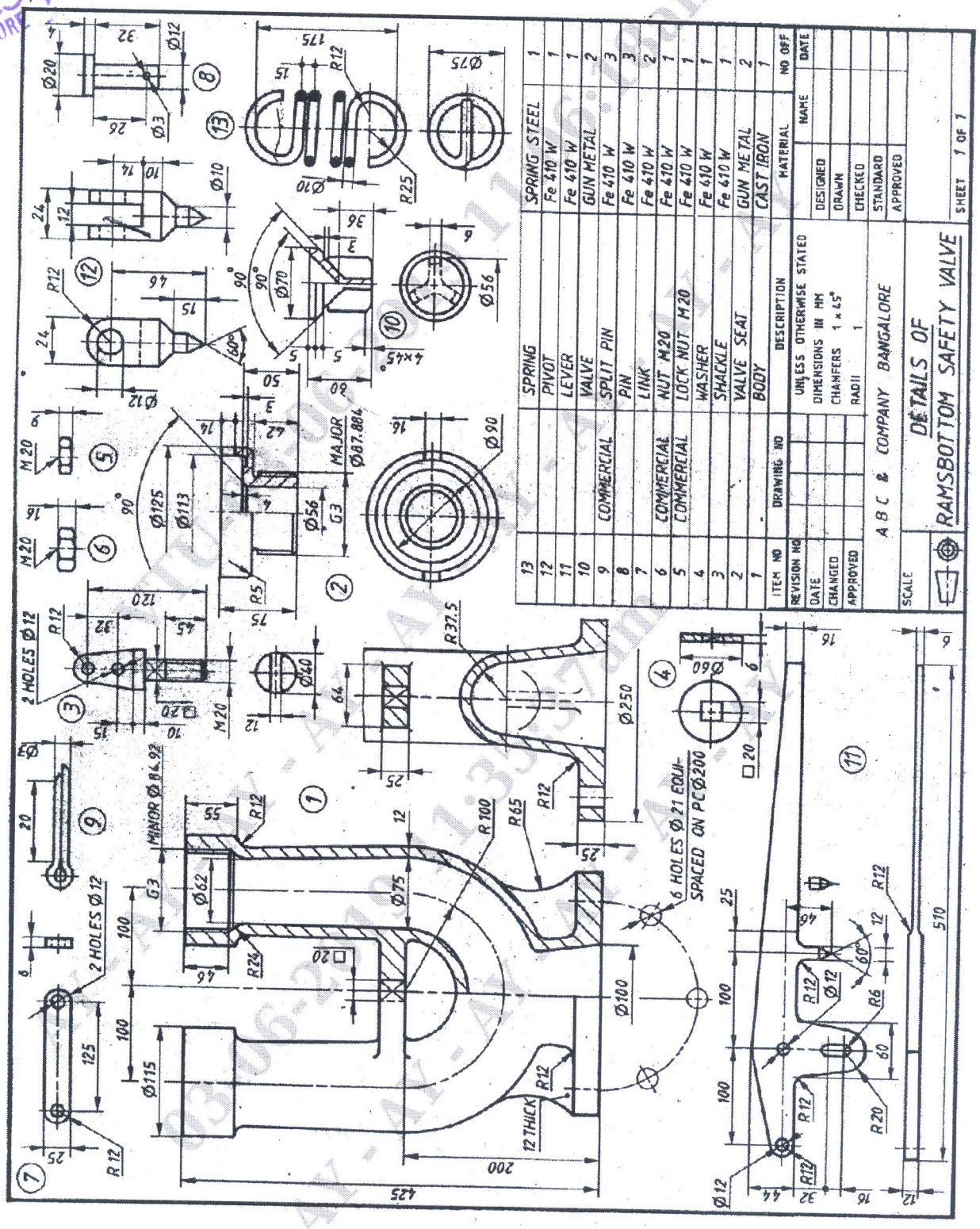

Figure 3 : Part drawing of a "RAMS BOTTOM SAFETY VALVE