Third/Fourth Semester B.E. Degree Examination, Feb./Mar. 2022
(ME/MA)

COMPUTER AIDED MACHINE DRAWING

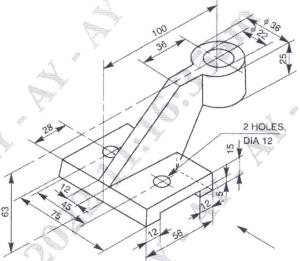
Time: 3 Hours

Max. Marks: 80

- Note: 1. Answer any ONE question from each of the parts A, B and C.
 - 2. Use FIRST ANGLE projection only.
 - 3. Missing data if any may suitably be assumed.
 - 4. All the calculations should be on answer sheet supplied.
 - 5. All the dimensions are in mm.
 - 6. Part C Assembled View should be in 3D and other 2 views in 2D.

PART - A

Q.No.1 The pictorial view of a Machine Part is shown below, Draw the following views: i) Front View and ii) Side View and iii) Top view. (15 Marks)



Q.No.2 Draw two views of the Square Headed Bolt with nut for a 30mm diameter bolt. Take length of the bolt is 100mm. (15 Marks)

PART - B

- Q.No.3 Draw to 1:2 Scale the top and sectional front views of a double riveted lap joint with Zig zag riveting. The thickness of the plates is 9mm. Show at least three rivets in each row. Indicate all the dimensions. Use snap head rivets. (15 Marks)
- Q.No.4 Draw sectional front view and side view of a Universal Coupling to connect two rods of diameter 20mm. Indicate all dimensions. (15 Marks)

15ME36A/15ME46A/15MEA306/15MEA406 PART - C

Q.No.5 Figure 1 shows the details of a "MACHINE VICE". Assemble the parts and draw

(a) Sectional Front View.

(b) Top View.

(50 Marks)

Figure 2 shows the details of an "RAMSBOTTOM SAFETY VALVE". Assemble the Q.No.6 parts and draw the following views. Dimension the drawings.

(a) Front View with top half in section. (b)Top View.

(50 Marks)

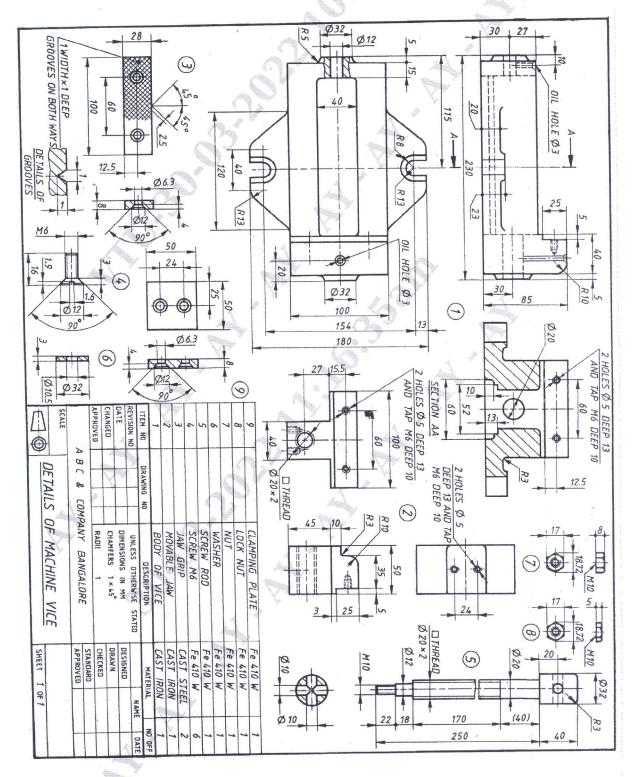


Figure 1 "MACHINE VICE"

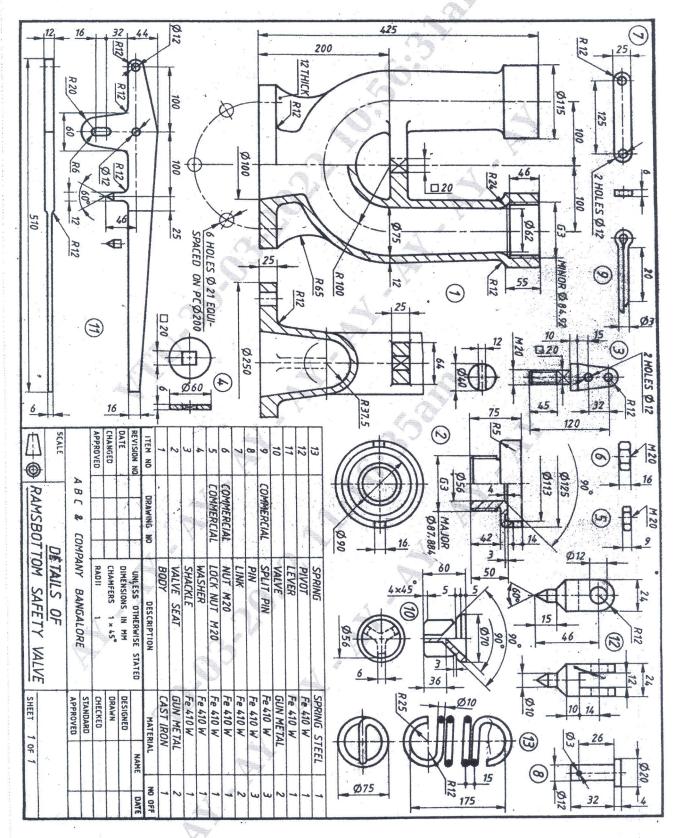


Figure 2 "RAMSBOTTOM SAFETY VALVE".