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**Third Semester B.E. Degree Examination, December 2016**  
**(ME/MA)**

**COMPUTER AIDED MACHINE DRAWING**

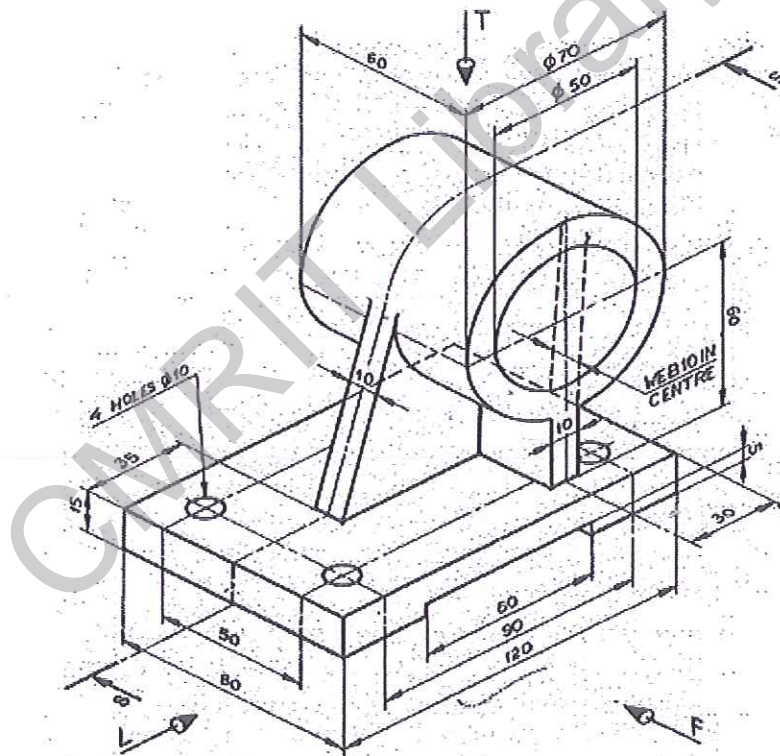
Time: 3 Hours

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: 1 scale the top and sectional front views of a single riveted lap joint with Chain 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 Oldham's Coupling to connect two shafts of diameter 20mm. Indicate all dimensions. **(15 Marks)**

**PART - C**

**Q.No.5** Details of a "PLUMMER BLOCK" are shown in Figure 1. Assemble the parts and draw the following views of the assembly:

- a. Front View showing right half in section.    b. Top View.    **(50 Marks)**

**Q.No.6** Figure 2. Shows the details of a "RAMS BOTTOM SAFETY VALVE". Assemble the parts and draw

- (a) Sectional Front View    (b) Top View.    **(50 Marks)**

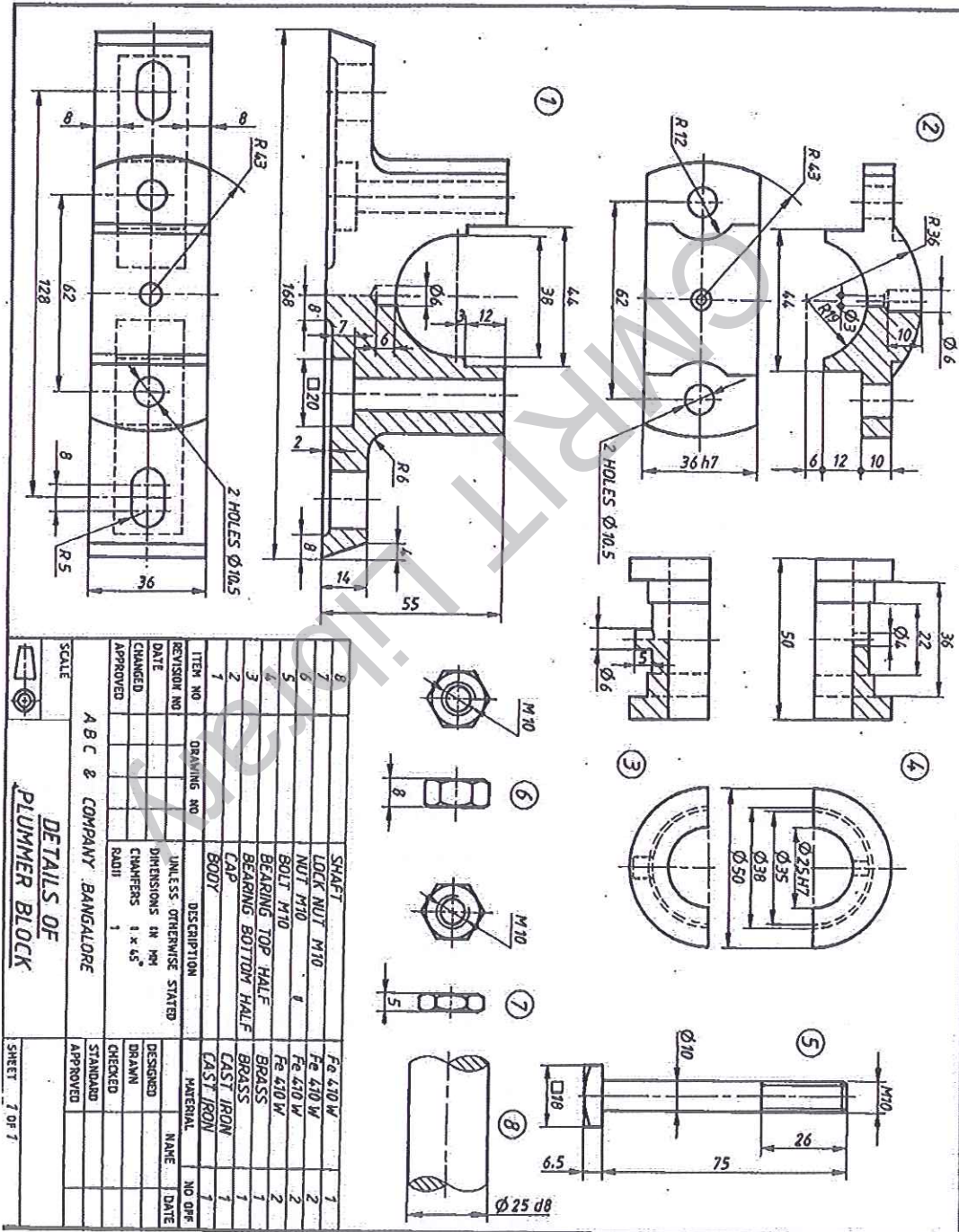


Figure 1 "PLUMMER BLOCK"

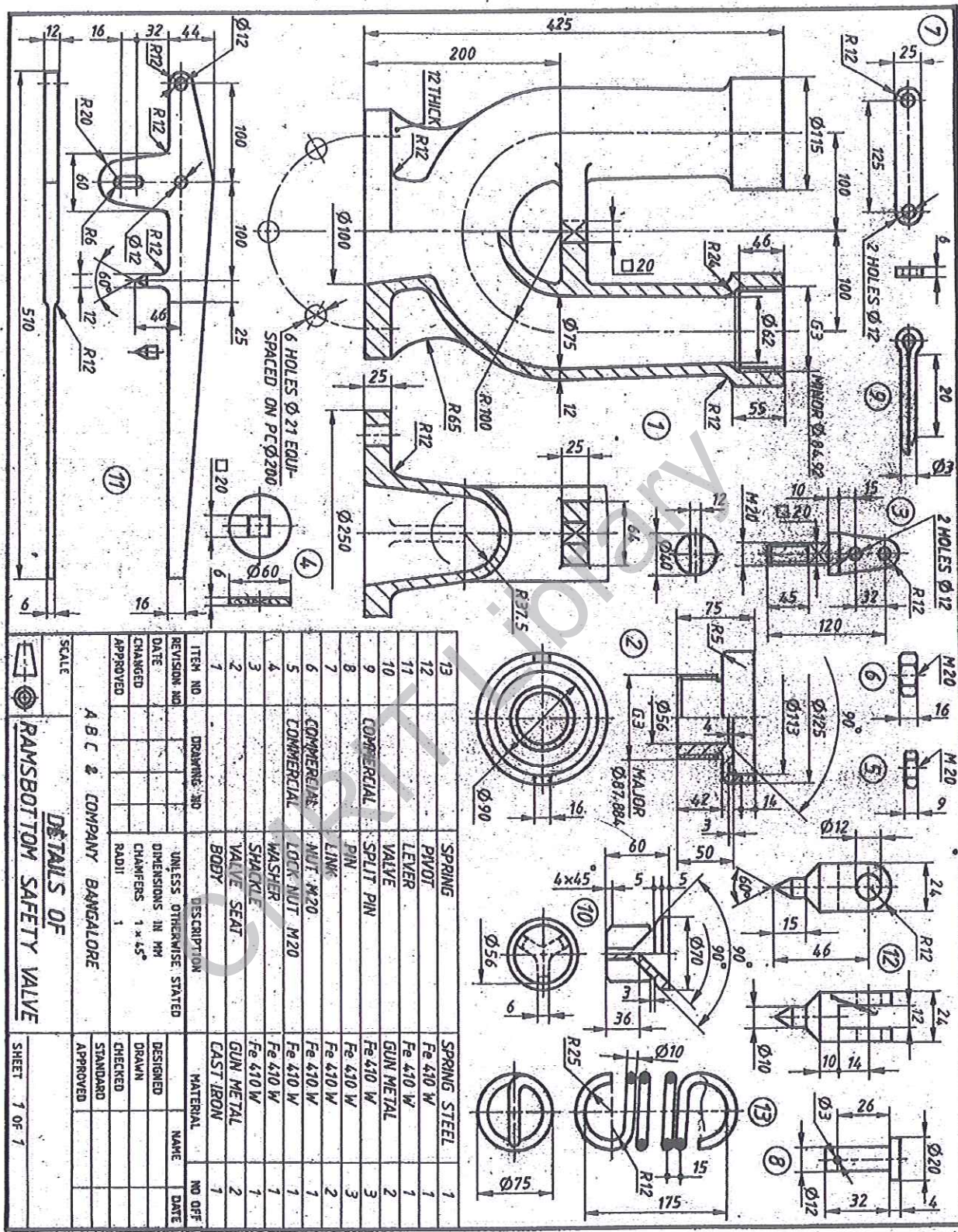


Figure 2. "RAMSBOTTOM SAFETY VALVE".