

Third Semester B.E. Degree Examination, December 2019

## COMPUTER AIDED MACHINE DRAWING

Time: 3 Hours

ANGALORE

Max. Marks: 100

Note: 1. Answer any one question from each of the parts A,B,C

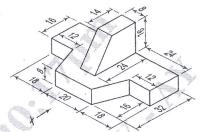
- 2.Use FIRST ANGLE projection only.
- 3. Missing data if any may suitable be assumed
- 4. All the calculations should be on answer sheet supplied
- 5. All the dimensions are in mm
- 6. Part C Assembled View should be in 3D and the other 2 views in 2D

#### PART-A

Q. No. 1 Figure shows a machine component. Draw the following:

(25 Marks)

- (a) Front view
- (b) Top view and
- (c) Side view from left



Q. No. 2 Draw the conventional form of following threads for pitch 40 mm at least 3 threads each a) Acme thread b) ISO thread.

(25 Marks)

## PART-B

Q. No. 3 Draw a knuckle joint to connect two rods of 25 mm diameter showing sectional front view and top view. Indicate all the proportions with dimensions.

(25 Marks)

Q. No. 4 Draw two views of a Protected type flanged coupling of diameter of shaft of 25mm.

(25 Marks)

# PART-C

Q. No. 5 Figure: 1 Shows the details of "Plummer block". Assemble the parts and draw the following: a) Sectional front view b) Top view

(50 Marks)

Q. No. 6 Figure: 2 Shows the details of "Lever safety valve". Assemble the parts and draw the following: a) Sectional front view b) Top view

(50 Marks)

USN

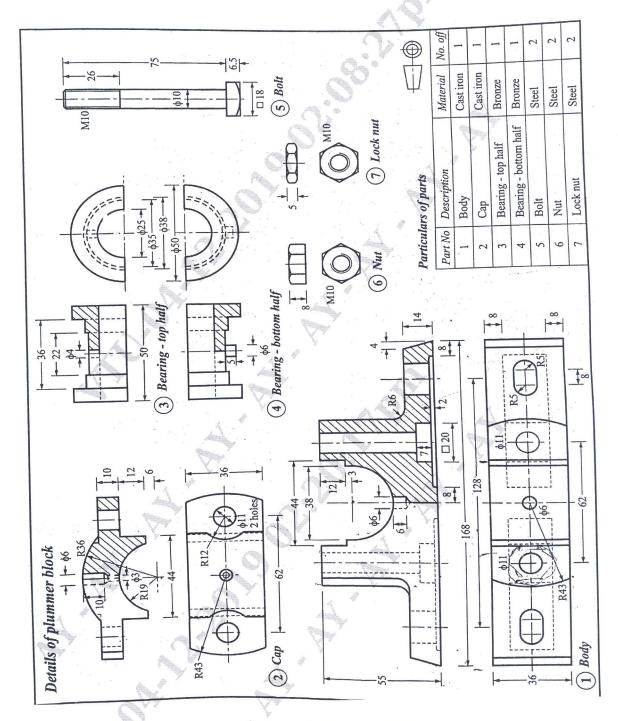


Figure 1: Details of Plummer Block

#### 18ME36A/18MEA306/18MA36 IISN φ260 φ140 4230 M114 4 **\$230** 6 HOLES, DIA 20 EQUI-SP PCD 180 6 HOLES, M20 EQUI-SP 6 HOLES, DIA 20 EQUI-SP ¢104 (2) 2 HOLES, DIA 22 \$ \$15 10) 1260 (12) Parts list Part No. Name Qty Part No. Name Mati Qty Mati CI Toggle-pin Lever guide Body MS Valve seat GM MS Valve GM 10 Lever FS 3 Cover CI 11 Fulcrum pin MS Cover bush Brass 12 Weight CI Spindle MS Lever pin MS MS Stud with nut M20 Toggle

Figure 2: Details of Lever safety valve