**R15** 

Code No: 124DA

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May - 2017 MACHINE DRAWING

(Common to ME, MCT, AME, MSNT)

Time: 3 Hours

Max. Marks: 75

## **Answer any THREE questions from Part-A Part-B is Compulsory**

- - -

## PART- A

 $[3 \times 10 = 30 \text{ Marks}]$ 

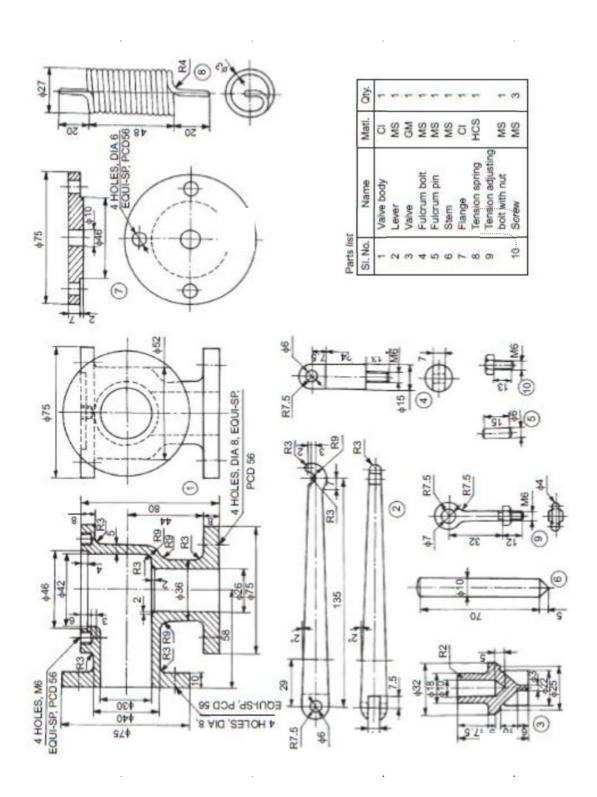
- 1. Draw the sectional front view and top view of two 20 mm thick plates fastened together by means of 20 mm diameter stud, a hexagonal nut and a washer. Insert important dimensions. [10]
- 2. Draw the sectional front and side view of a cotter-joint with two sleeves and each sleeve is having a width of 32 mm and thickness 6 mm and the clearance is 3 mm and taper as 1 in 30. [10]
- 3. Draw neatly, a sectional front view and top view of a single riveted butt joint for two 10 mm thick plates, using two butt-straps. Show all the dimensions in your drawing. [10]
- 4. Draw the half sectional front view and side view of a journal bearing which can accommodate 40 mm diameter shaft. [10]

## PART - B

 $[1 \times 45 = 45 \text{ Marks}]$ 

- 5. Assemble the parts of spring loaded safety valve for the parts shown in Figure and draw the:
  - a) sectional front view
  - b) right side view.

[45]



www.ManaResults.co.in