

Code No: R22036

R10**SET - 1****II B. Tech II Semester Regular Examinations August – 2014****MACHINE DRAWING**

(Com. to ME, AME)

Time: 3 hours

Max. Marks: 75

Note: Part A: Answer any TWO of the following questions:**PART-B is compulsory.****PART- A**

(15M×2=30M)

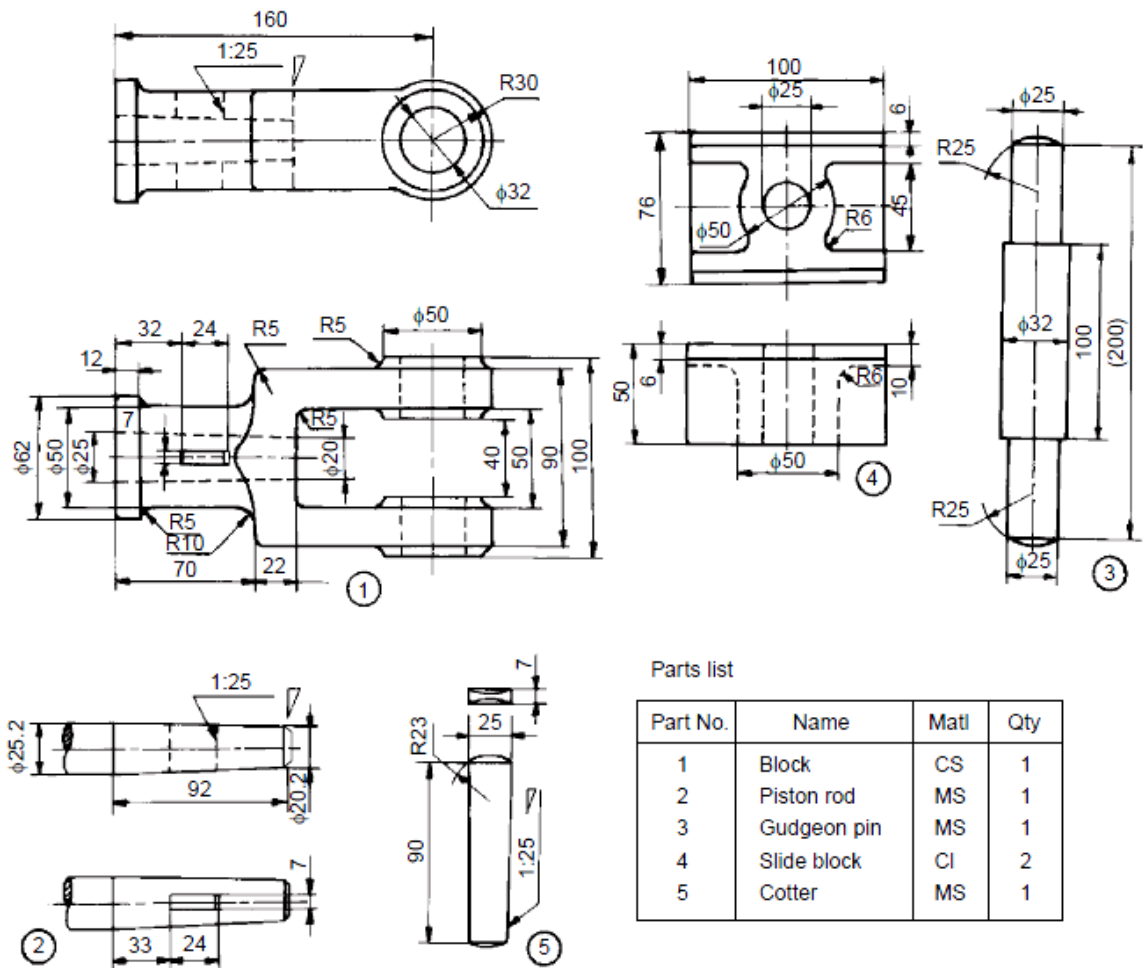
1. Conventionally represents Wood, Plastic, Steel, Glass, Rubber, Gear, and Bearing.
2. Draw the sectional elevation, side view and top view right half in section of a solid journal bearing for a 30 mm diameter shaft.
3. Draw the single riveted lap joint of 16 mm thick plates using snap headed rivets. Show at least three rivets in the plan view and add a sectional elevation. Mark the dimensions in terms of the rivet diameter d .

Part B: Assembly drawing

(45M)

4. Parts of a steam engine connecting rod end are shown in the figure. Assemble them and draw the following views:
 - a) Elevation
 - b) Plan

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R10**SET - 2****II B. Tech II Semester Regular Examinations August – 2014****MACHINE DRAWING**

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Time: 3 hours

Max. Marks: 75

Note: Part A: Answer any TWO of the following questions:**PART-B is compulsory.****PART- A**

(15M×2=30M)

1. Conventionally represent Bolts, Keys, Gears, Stone, Diamond knurling?
2. Sketch sectional elevation and end view of the assembly of shaft and collar fitted with taper sunk key. The diameter of the shaft is 30 mm and that of the collar is 50 mm for a length of 60 mm. Indicate the dimensions on the keys as per the standard practice.
3. Draw the three views of a hexagonal nut suitable for M30 bolt. Enter all dimensions in terms of bolt diameter d . Retain all the construction lines.

Part B: Assembly drawing

(45M)

4. Parts of a simple type steam stop valve are given in figure 2. Assemble them and draw the following views:
 - a) Full sectional elevation
 - b) Plan

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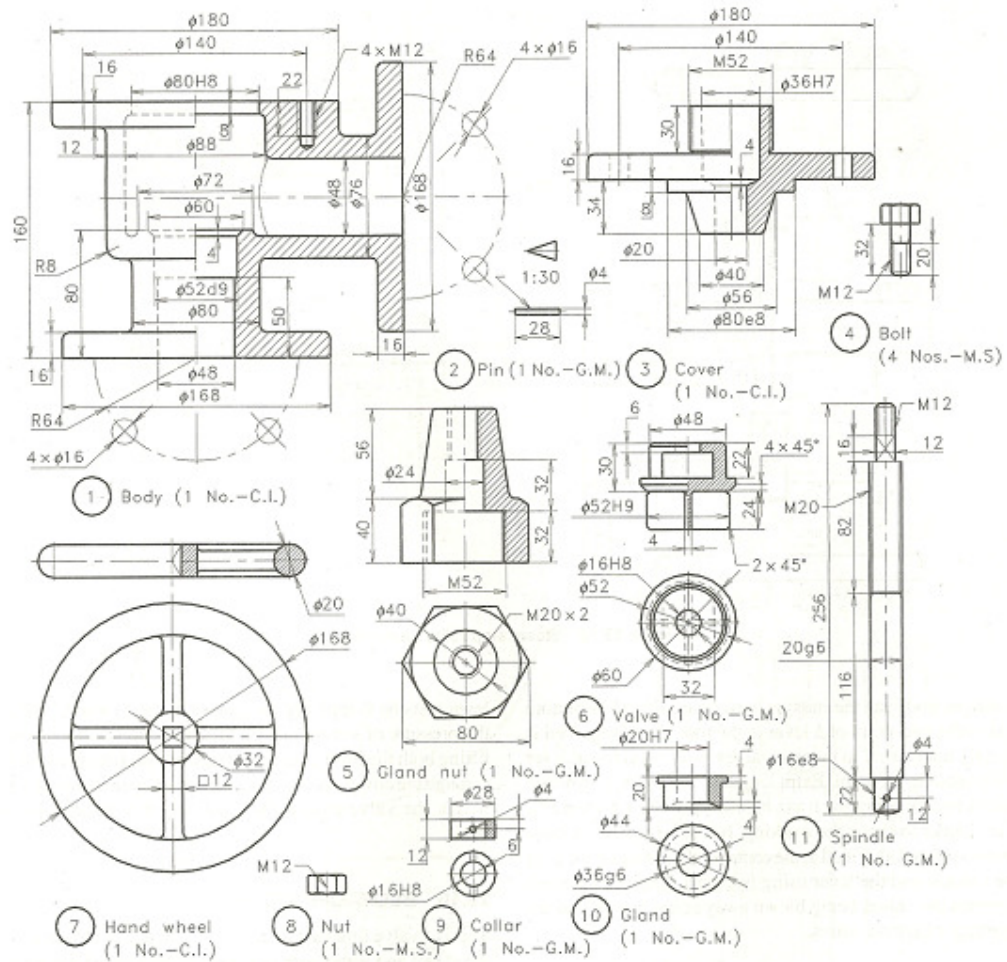


Figure 2 – STEAM STOP VALVE

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R10**SET - 3****II B. Tech II Semester Regular Examinations August – 2014****MACHINE DRAWING**

(Com. to ME, AME)

Time: 3 hours

Max. Marks: 75

Note: Part A: Answer any TWO of the following questions:**PART-B is compulsory.****PART- A**

(15M×2=30M)

1. Draw single riveted single strap butt joint of 10 mm thick plates using snap headed rivets. Show at least three rivets in the plan view and add a sectional elevation. Mark the dimensions in terms of the rivet diameter d.
2. Draw the half sectional front view and side view of a split muff-coupling suitable for a shaft of 50 mm diameter?
3. Sketch half sectional elevation of a bush type footstep bearing assembly suitable to a shaft size 50 mm in diameter.

Part B: Assembly drawing

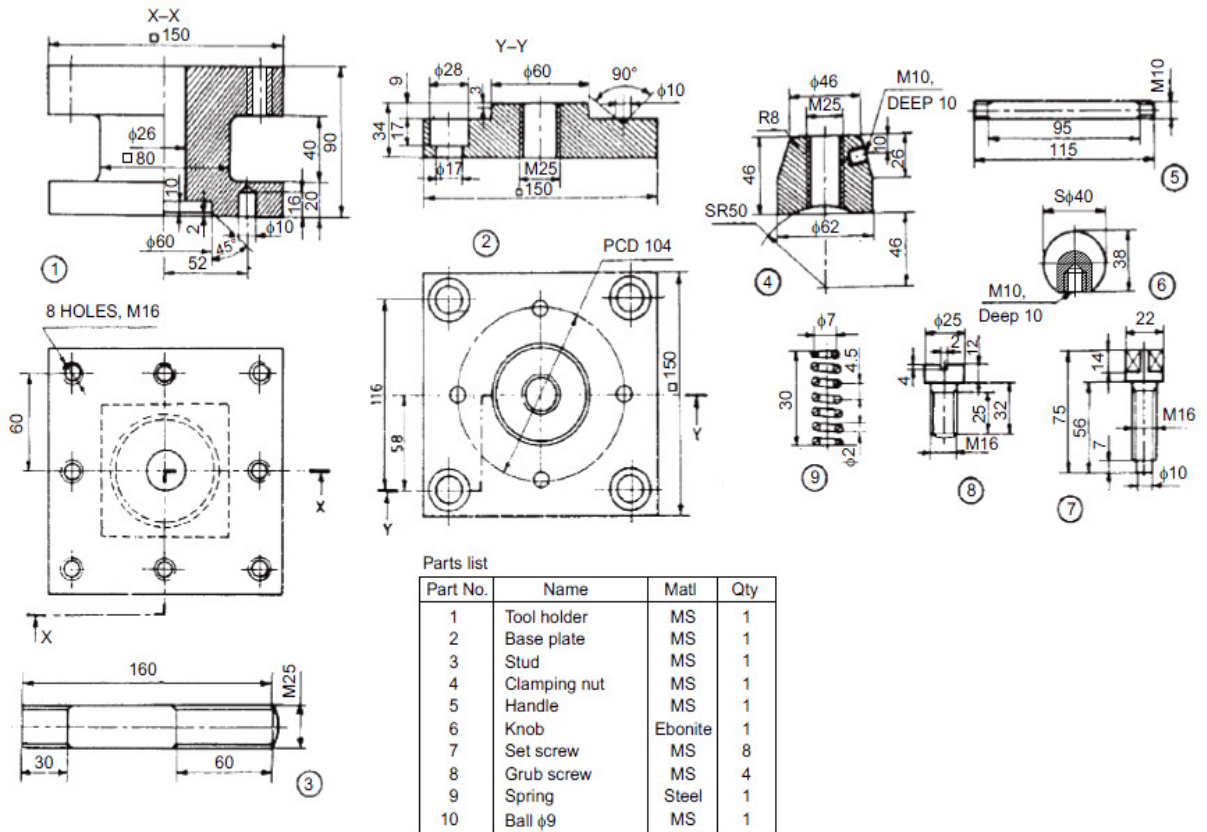
(45M)

4. Parts of square tool post are given in figure. Assemble them and draw the following views:
 - a) Half sectional front view
 - b) Top view

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R10**SET - 4****II B. Tech II Semester Regular Examinations August – 2014****MACHINE DRAWING**

(Com. to ME, AME)

Time: 3 hours

Max. Marks: 75

Note: Part A: Answer any TWO of the following questions:**PART-B** is compulsory.**PART- A**

(15M×2=30M)

1. Draw double riveted zigzag lap joint of 12 mm thick plates using snap headed rivets. Show at least three rivets in the plan view and add a sectional elevation. Mark the dimensions in terms of the rivet diameter d.
2. Draw the half sectional front view and side view socket and spigot joint suitable for shaft of 50mm diameter?
3. Draw half sectional elevation of a solid muff coupling fitted on a shaft of 36 mm diameter. Use standard proportions for the coupling and dimension the view.

Part B: Assembly drawing

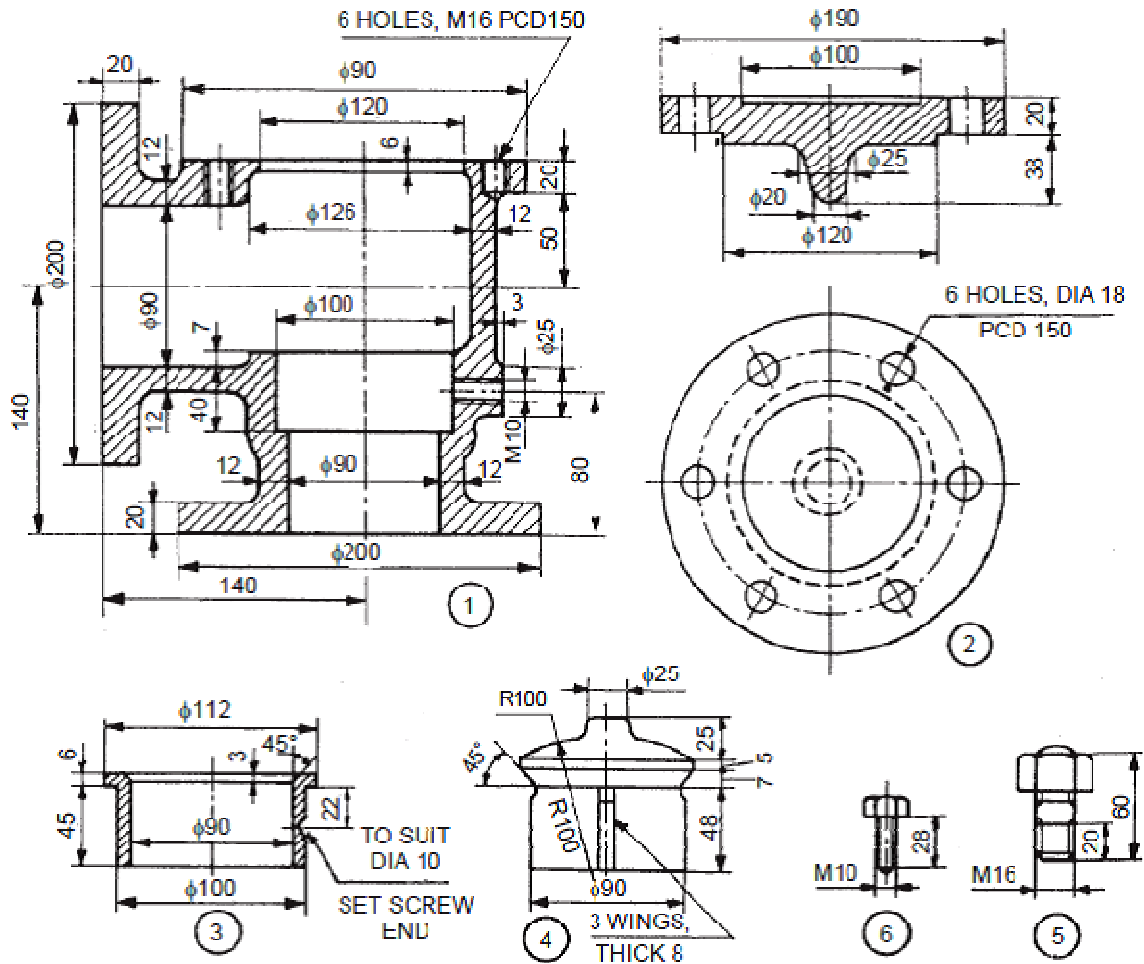
(45M)

4. Parts of valve and the valve seat are given in figure. Assemble them and draw the following views:
 - a) Full sectional elevation
 - b) Plan

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Parts list

No.	Name	Matl	Qty
1	Body	Brass	1
2	Cover	Brass	1
3	Valve seat	Bronze	1
4	Valve	Brass	1
5	Stud with nut	MS	6
6	Set screw	MS	1