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Total No. of Questions: 07

B.Tech. (Marine Engineering) (2013 Onwards) / B.Tech. (ME) (2011 Onwards) (Sem. - 3)

**MACHINE DRAWING** 

M Code: 59113 **Subject Code: BTME-303** Paper ID: [A1140]

Time: 3 Hrs. Max. Marks: 60

## **INSTRUCTIONS TO CANDIDATES:**

- SECTION-A is COMPULSORY consisting of NINE questions carrying TWO marks each.
- SECTION-B contains FOUR questions carrying FOUR marks each and students have 2. to attempt any THREE questions.
- SECTION-C contains TWO questions carrying THIRTY marks each and students have to attempt any ONE question.

## SECTION A

- 1. a) Sketch the five types of line used in machine drawing.
  - b) Why we need sectional views?
  - c) How do you classify various types of fits?
  - d) Draw edge and corner welding joints.
  - e) Under what circumstances cotter joints are commonly used?
  - f) What is blow of cock?
  - g) Draw a view of piston and show its important parts
  - h) Why are collars provided on the brasses?
  - i) What is the function of a tool post?

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## **SECTION B**

- 2. Show a double riveted Lap joint (chain riveting) with the help of elevation and plan.
- 3. Name the various form of V threads and give full details of any one form.
- 4. Make a proportionate free hand sketch of a cone clutch.
- 5. Draw the free hand front view (upper half in section) of a spigot and socket pipe joint.

## **SECTION C**

- 6. Figure 1 show the detail of a universal coupling. Assemble the given components and draw the front view (Lower half in section) and top view of assembly.
- 7. Figure 2 show the detail of a screw jack. Assemble the given components and draw the front view (Left half in section) and top view of assembly.

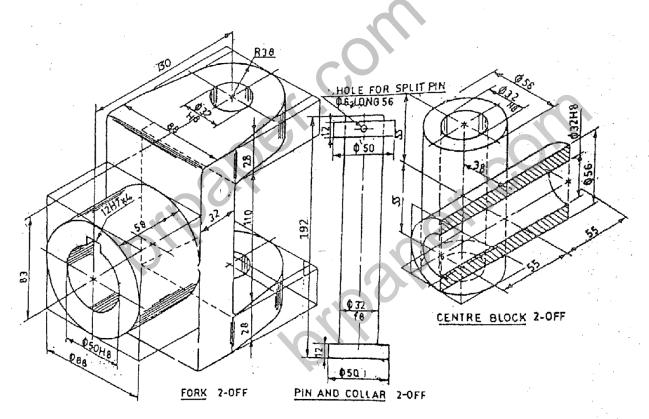


Fig 1: Universal Coulping

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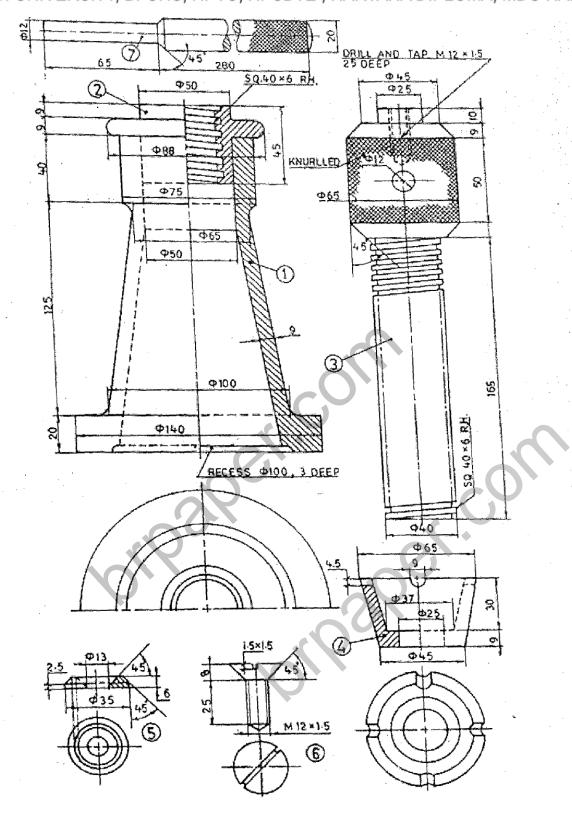


Fig 2. Detail of screw jack

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