

Roll No.

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Total No. of Pages : 03

Total No. of Questions : 07

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

MACHINE DRAWING

Subject Code : BTME-303

Paper ID : [A1140]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

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

SECTION-A

- 1. Write briefly :**
- Name the two types of system of dimensioning. Show one of them with the help of a suitable example.
 - Show the revolved and removed section of a connecting rod.
 - Show the convention of a screw thread.
 - Draw free hand, the elevation of a hexagonal nut and its side view.
 - Differentiate between a bolt and a screw.
 - Name the different types of nuts, atleast four.
 - Differentiate between the lap and butt joint of a rivetted plate.
 - Show the convention of the following as per BIS
 - Fillet Weld
 - Single V-Butt Weld
 - What is the difference between right hand and left hand-threads?

SECTION-B

2. Draw a metric thread (M) and give its dimensions in terms of its pitch. 4
3. Draw the elevation of a flanged nut and give its dimensions in terms of its diameter D. 4
4. Name the various types of foundation bolt and draw the sketch of one of them. 4
5. Name the various types of keys. Sketch the Gib head key and give its proportions. 4

SECTION-C

6. Figure below shows the pictorial view of spigot and socket joint. Draw the following
 - a) Elevation in the direction of 'E' upper half in section.
 - b) Plan

30

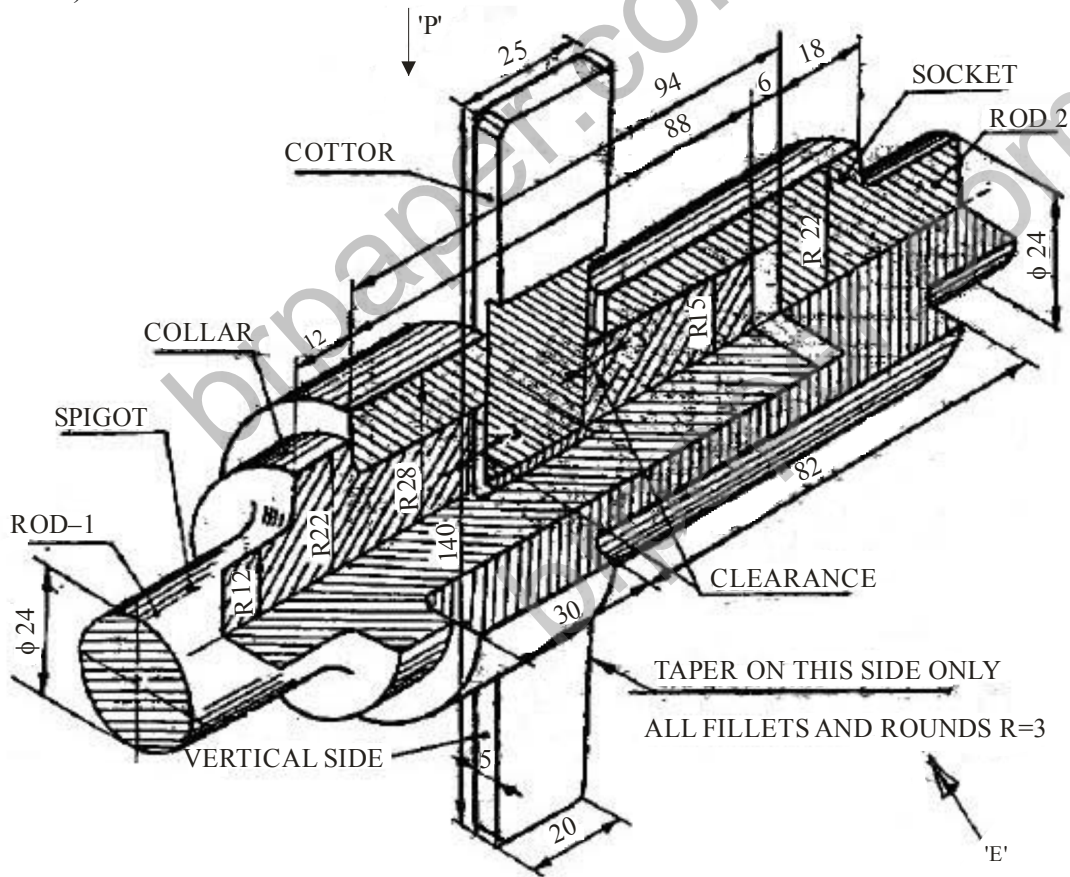


Fig.

7. Figure below shows the details of the Knuckle Joint. Draw the following views of the assembly. 30

- Front view
- Plan
- Bill of Material

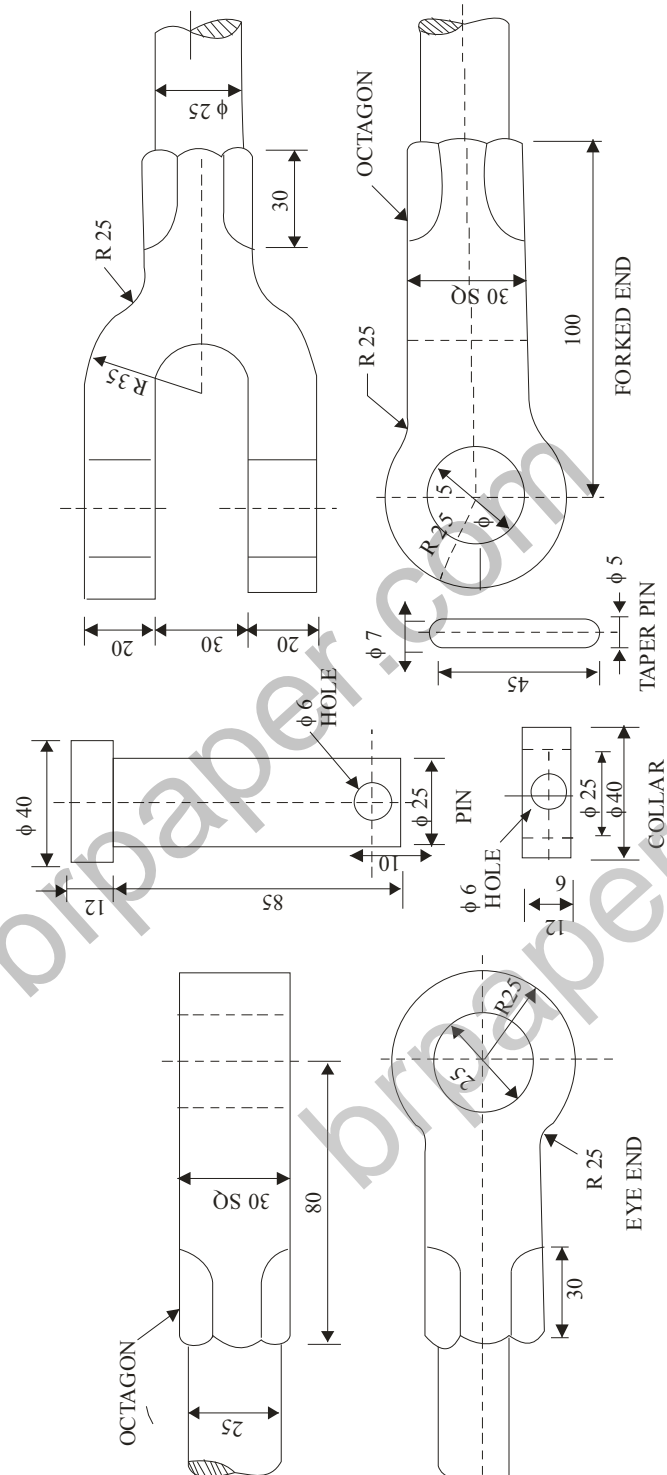


Fig. : Details of Kunckle Joint