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Total No. of Questions: 07

Total No. of Pages: 03

B. Tech. (Marine Engineering/ME) (Sem. 3)

MACHINE DRAWING

Subject Code: BTME-303

Paper ID: A1140

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS 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** questions.

SECTION A

1.
 - a) Explain unidirectional and aligned system of dimensioning with the help of suitable sketch.
 - b) What do you understand by revolved sections?
 - c) Define the terms limits and tolerance.
 - d) Draw edge and comer welding joints.
 - e) Sketch the knuckle thread profile by using suitable pitch.
 - f) What is blow of cock?
 - g) What is the function of connecting rod?
 - h) What do you mean by transition fit?
 - i) What is the function of a drilling jig?

SECTION B

2. Draw the sectional front view and top view of the double riveted lap joint (chain), take thickness of plate 15mm and diameter of rivet 20mm.

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), top view and side view of assembly.
7. Figure 2 show the detail of a Swivel bearing. Assemble the given components and draw the front view (Right half in section), top view and side view of assembly.

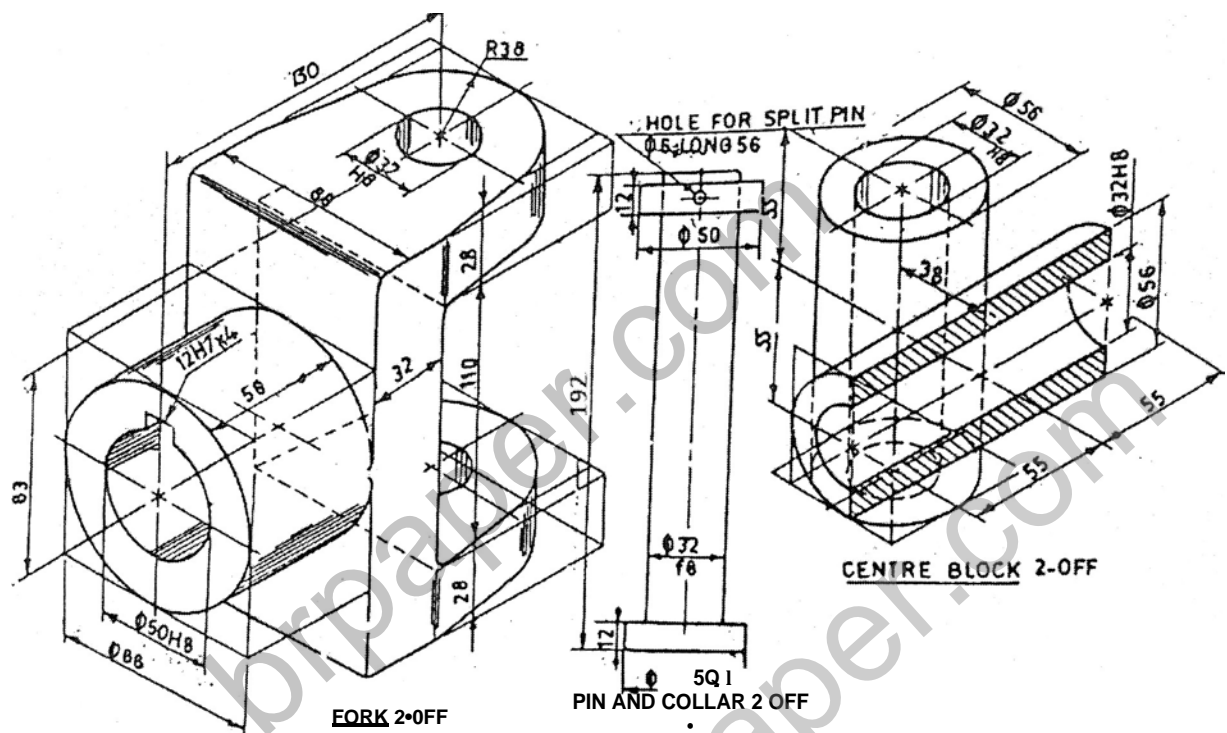


Fig 1: Universal Coupling