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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.

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- **3**. Draw the two views of a hexagonal nut of nominal diameter 25mm.
- OL HOLED C'SUNK AT 90 BUSH GM. 64 M10×1-2 C'SUNK <u>το φ8</u> <u>Φ35</u> Φ27 BEARING CI. HOFF M6× -75 Φ2 8 **d**35 FORK M.S. Φ64 8 THICK ٩<u>ر</u> 4 5 5 à 40 D 27 9 φ48 16 õ **Φ**44 KNURLING M22×2 20 2 8 3 M 22×2 Φ70 M6× LOCK NUT 1-OFF MS. ф 64 M 22 × 2 CRS 102 134 SPINDLE M8×1 M.S. 1-OFF M 10 ×1-25 10 76) SET-SCRE LOF R 39 1104-25 M 8×1 <u>Φ70</u> HEX.NUT 2-0FF M.S. CASTING C.I. HOFF BRASS 1-OFF
- 4. Draw the free hand sketch of knuckle joint.

Fig 2. Detail of Swivel Bearing

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^{5.} Draw the free hand elevation view of tool post

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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.

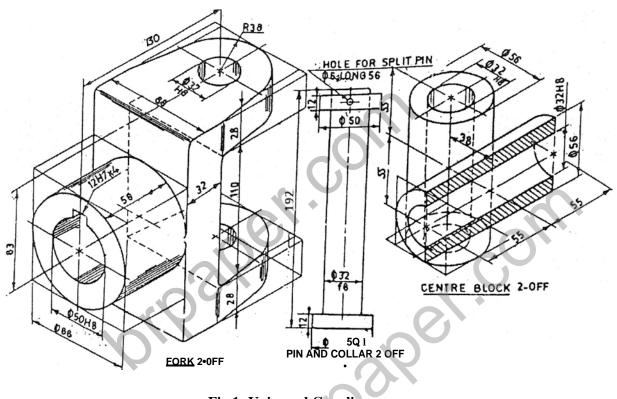


Fig 1: Universal Coupling