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Roll No.

Total No. of Pages : 04

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Total No. of Questions : 09

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

### **INSTRUCTIONS TO CANDIDATES :**

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

# SECTION-A

### 1. Write briefly :

- a) What are various types of welding?
- b) What is the difference between allowance and clearance?
- c) Draw the sketch of five types of lines used in machine drawing.
- d) What is the function of tool post of a lathe machine?
- e) What is the difference between permanent and temporary joints?
- f) What do you understand by screw threads and give its practical applications in engineering?
- g) Define bolt and give name of any three important types of bolts.
- h) What is the function of bush in bearing?
- i) What is the difference between size and location dimensioning?
- j) Why we need sectional views?

### **SECTION-B**

- 2. Draw the sectional front view and top view of a double riveted lap joint (Zig-Zag type). Take the diameter of rivet = 24mm
- 3. Draw the front view, and side view of a square headed bolt of 24 mm diameter and 96 mm long with a hexagonal nut.

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- 4. Draw free hand the full sectional front view of a pin type flexible coupling.
- 5. What do you understand by screw threads? What is the difference between V-threads and square threads?
- 6. Sketch free hand the sectional view of spigot and socket joint in pipe fittings.

#### **SECTION-C**

- 7. Figure 1 shows the details of a Plummer Block, draw the following views of the assembly
  - a) Half sectional front view
  - b) Top view





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- 8. Figure 2 shows the details of a blow off cock. Assemble the parts and draw the following views to some suitable scale :
  - a) Front view full in section
  - b) Side view



Figure 2 : Details of Blow off cock

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9. Draw the full sectional front view and top view of the screw jack assembly figure 3. Show the detail of screw jack.



**Figure 3 : Details of Screw Jack**