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Total No. of Pages : 05

Total No. of Questions : 09

B.Tech.(Marine Engg.) (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 TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A**1. Write briefly/Fill in the blanks :**

- (a) Draw the symbols of third angle projections.
- (b) What is muff coupling?
- (c) Define pitch.
- (d) The root angles in BIS metric thread and BSW threads are respectively _____ and _____.
- (e) Name various types of bearings.
- (f) Why is cotter tapered in its side(s)? Give reasons.
- (g) Differentiate between a gate valve and globe valve.
- (h) Draw symbol of fillet welding.
- (i) Sketch basic symbols for single and double U butt joint.
- (j) What is blow-off cock and where it is used?

SECTION-B

- 2 Draw plan and sectional elevation of a double riveted butt joint (Single cover and chain riveting). Take diameter of rivet : 20 mm.
- 3 Draw free hand sectional front view of pipe union joint.
- 4 Draw by a conventional method a right handed square thread. Take outside diameter = 64 mm, threaded length = 72 mm and pitch = 12 mm.
- 5 Show by neat sketches the following pipe fittings :
 - (a) Bend
 - (b) Elbow
 - (c) Tee
 - (d) Plug
 - (e) Cross
- 6 Represent two views of hexagonal nut and square nut with proportions and diameter of bolt as 30mm.

SECTION-C

- 7 Draw the full sectional Front view and Top view of the screw-jack assembly as shown in fig. 1.

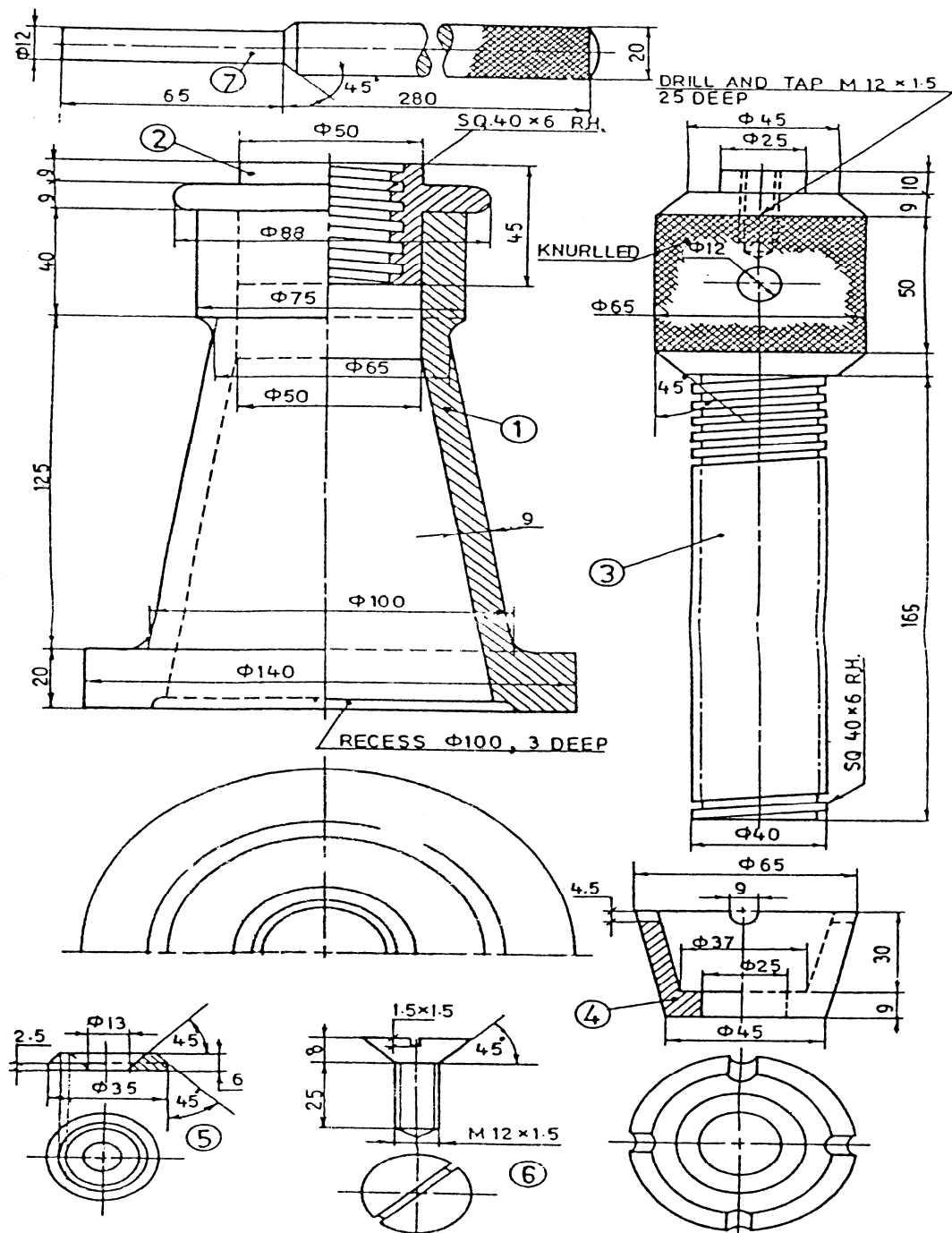


Fig. 1

