R13

Code: 13A03303

B.Tech II Year I Semester (R13) Supplementary Examinations June 2017

MACHINE DRAWING

(Mechanical Engineering)

Time: 4 hours Max. Marks: 70

All answer should be on the drawing sheet only Answers on the drawing sheet only will be valued First angle projections to be adopted

Section - I

Answer any two of the following ($2 \times 4 = 08$ Marks)

- 1 Sketch the conventional representation of the following:
 - (a) Cast iron.
 - (b) Lead.
 - (c) Glass.
 - (d) Slate.
- 2 Sketch the following thread profiles, pitch =25 mm.
 - (a) Square thread.
 - (b) Buttress thread.
- 3 Draw the conventional representation of bevel gear and worm and worm wheel.

Section - II

Answer any two of the following ($2 \times 10 = 20 \text{ Marks}$)

- Draw the top and front views of a single riveted lap joint. The thickness of the plates is 9 mm. Show at least three rivets in each row. Indicate all the dimensions. Use snap head rivets.
- 5 Draw the Sectional front view and side view of the Knuckle Joint assuming the diameter of the rods is 25 mm.
- Draw the sectional front view and side view of a Flanged Coupling-Protected type, assuming diameters of the shafts is 30 mm.

Section - III

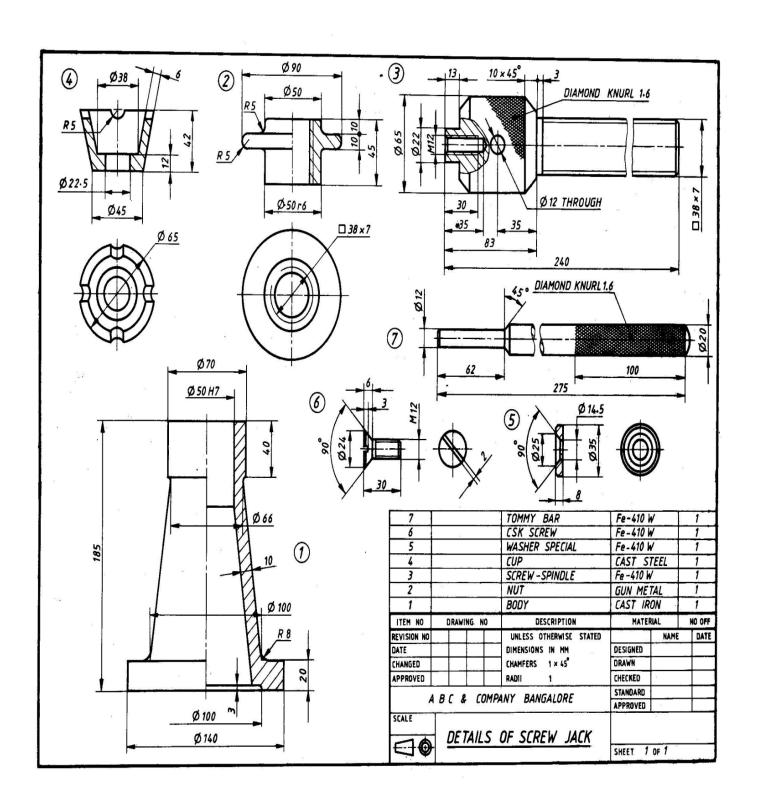
Answer the following $(1 \times 42 = 42 \text{ Marks})$

- 7 Details of a Screw Jack are shown in figure below. Assemble the parts and draw the following views:
 - (a) Front view in half section.
 - (b) Top view.

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