

Reg.No.

--	--	--	--	--	--	--	--	--	--

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech II Year I Semester (R16) Regular Examinations November 2017
MACHINE DRAWING
(MECHANICAL ENGINEERING)**

Time: 4 hours

Max. Marks:60

Section – I

(Answer any two questions, 2 x 4 = 8)

1. Sketch the conventional representation of the following materials:
(a) concrete (b) wood

2. Explain the following notes:
(a) **DIA 25 DEEP 25** (b) **DIA 10 CSK DIA 15** (c) **KEY SEAT, WIDE 10** (d) **M 18 x 1**

3. Sketch the following thread profiles for a nominal diameter of 25 mm and pitch 3 mm.
(a) BSW thread (b) Buttress thread

Section – II

(Answer any two questions, 2 x 8 = 16)

4. Draw two views of hexagonal A hexagonal headed bolt with a nut and a washer in position by considering proportions (Take D =25mm.)

5. Sketch the required views, indicating the proportions of a solid flange coupling used in marine engines to connect two shafts, each of diameter 60 mm.

6. Draw (a) sectional view from the front and (b) view from above of :
Double riveted-double strap chain butt joint to join plates of thickness 10 mm. Take The size of the rivet, d is taken as, $d = 6\sqrt{t}$ mm.

Section – III
(Compulsory Questions, 1 x 36 = 36)

7. Assemble all parts of the screw jack, shown in Fig. below and draw the following views:
(i) Half sectional view from the front, and
(ii) View from above

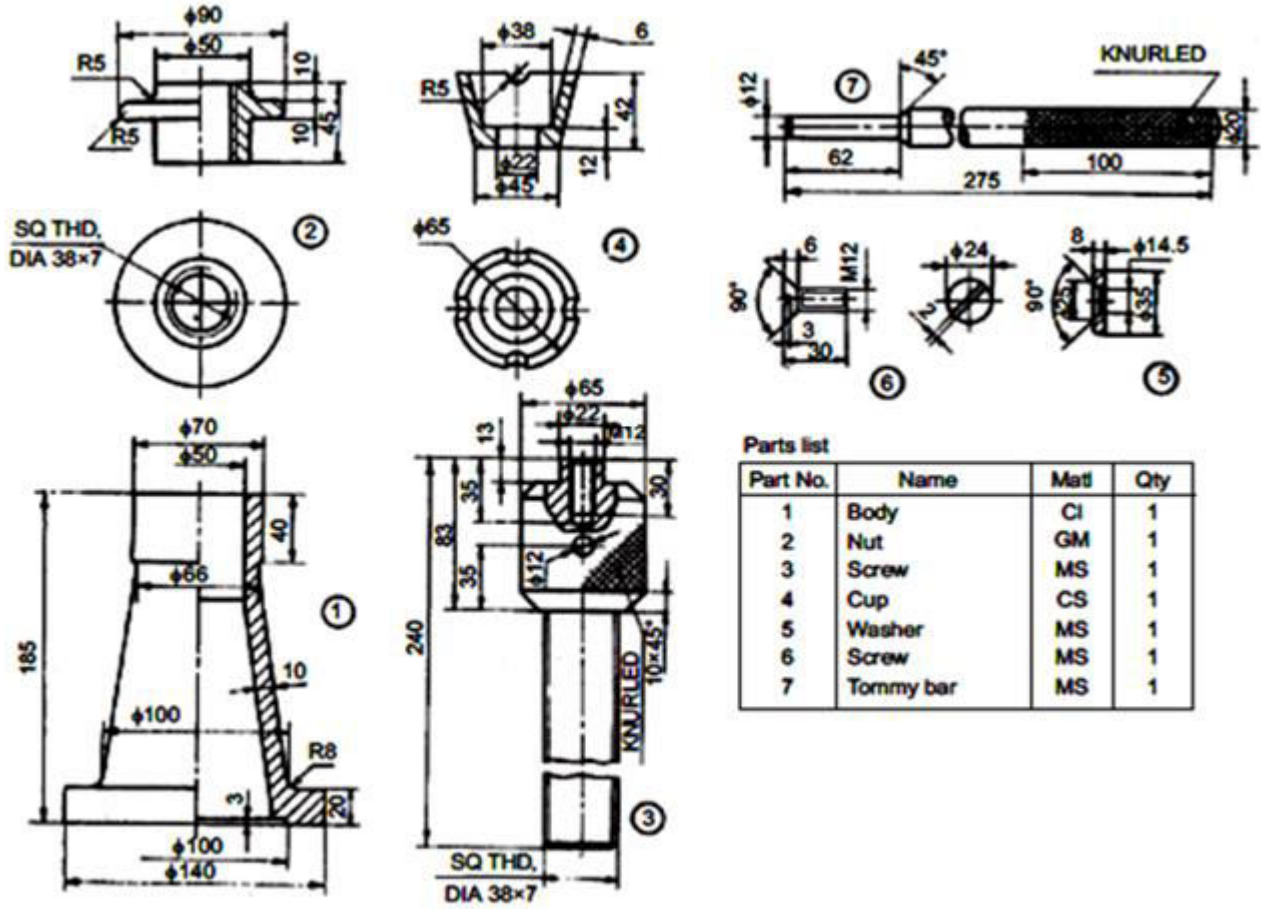


Fig. Screw jack