

USN

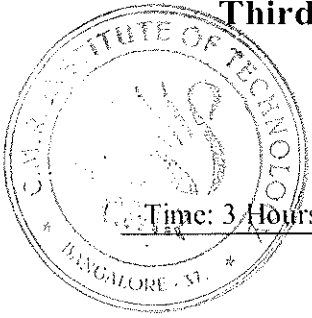
--	--	--	--	--	--	--	--	--	--

10ME36A/46A

Third/Fourth Semester B.E. Degree Examination, May/June 2016

(ME/IP/IM/MA/AE)

COMPUTER AIDED MACHINE DRAWING



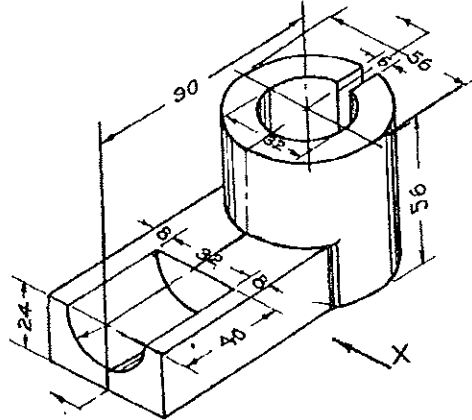
Time: 3 Hours

Max. Marks: 100

- Note:** 1. Answer any ONE question from each of the parts A, B and C.
2. Use **FIRST ANGLE** projection only.
3. Missing data if any may suitably be assumed.
4. All the calculations should be on answer sheet supplied.
5. All the dimensions are in mm.
6. Part C Assembled View should be in 3D and other 2 views in 2D.

Part - A

- Q. No. 1.** Following figure shows a machine component. Draw the following views:
(a) Front view (b) Top view and (c) Left side view **(20 Marks)**



- Q. No. 2.** Draw the two views of hexagonal headed bolt M20X100 and a thread length of 60 mm, with a hexagonal nut. Indicate all the proportions and actual dimensions. **(20 Marks)**

Part - B

- Q. No. 3.** Sketch sectional front and top views of the double riveted zig-zag butt joint with double straps, taking $t = 10$ mm. Indicate dimensions. **(20 Marks)**
- Q. No. 4.** Draw sectional front and side views of a split muff coupling to connect two shafts of diameter 25 mm. Indicate dimensions. **(20 Marks)**

Part - C

- Q. No. 5.** Following figure 1 shows the details of IC Engine Connecting Rod. Assemble the parts and draw i) Front view ii) Top view. **(60 Marks)**
- Q. No. 6.** Part drawings of Screw Jack are shown in following figure 2. Assemble the parts and draw the following views.
i) Half sectional front view ii) Top view **(60 Marks)**

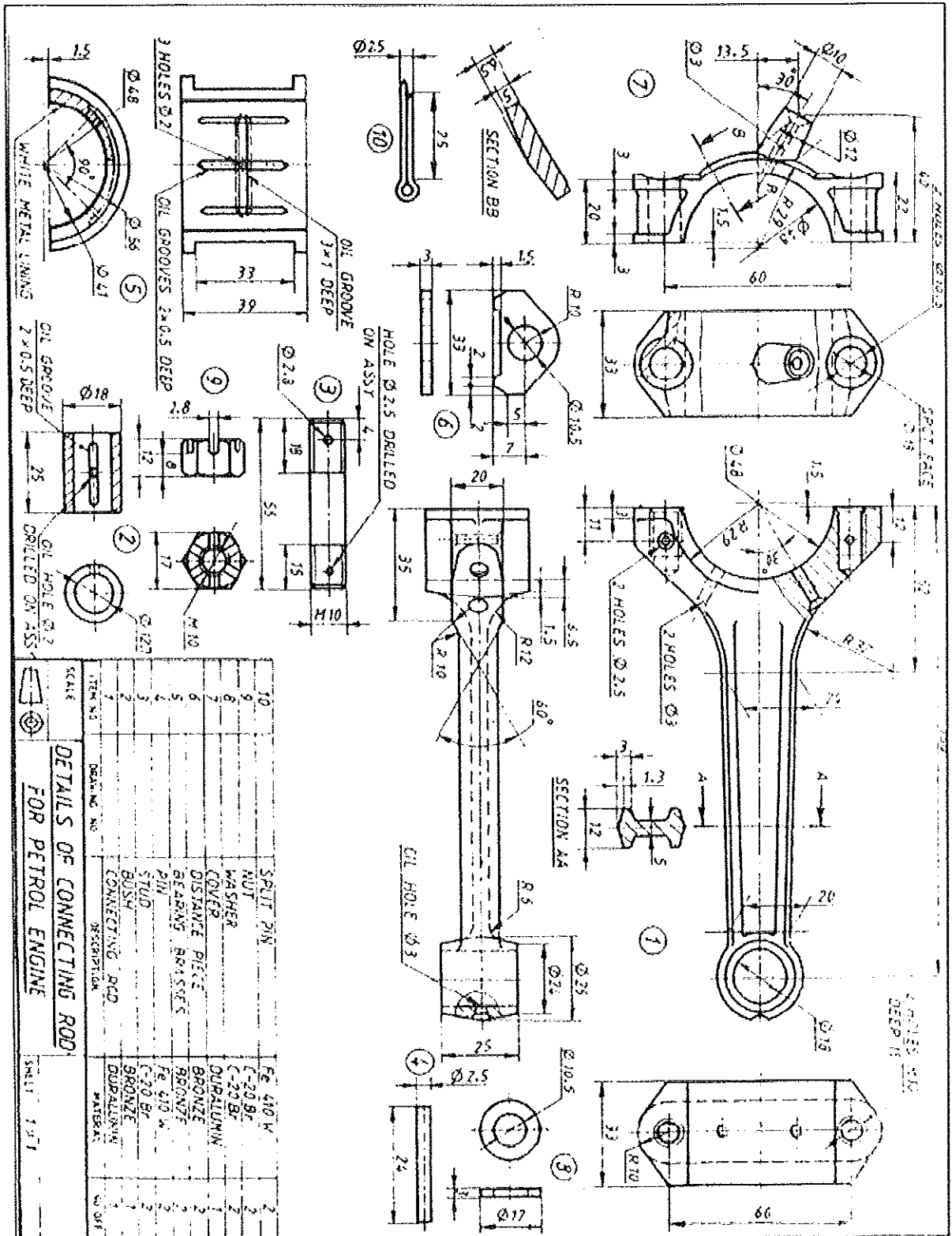


Figure 1

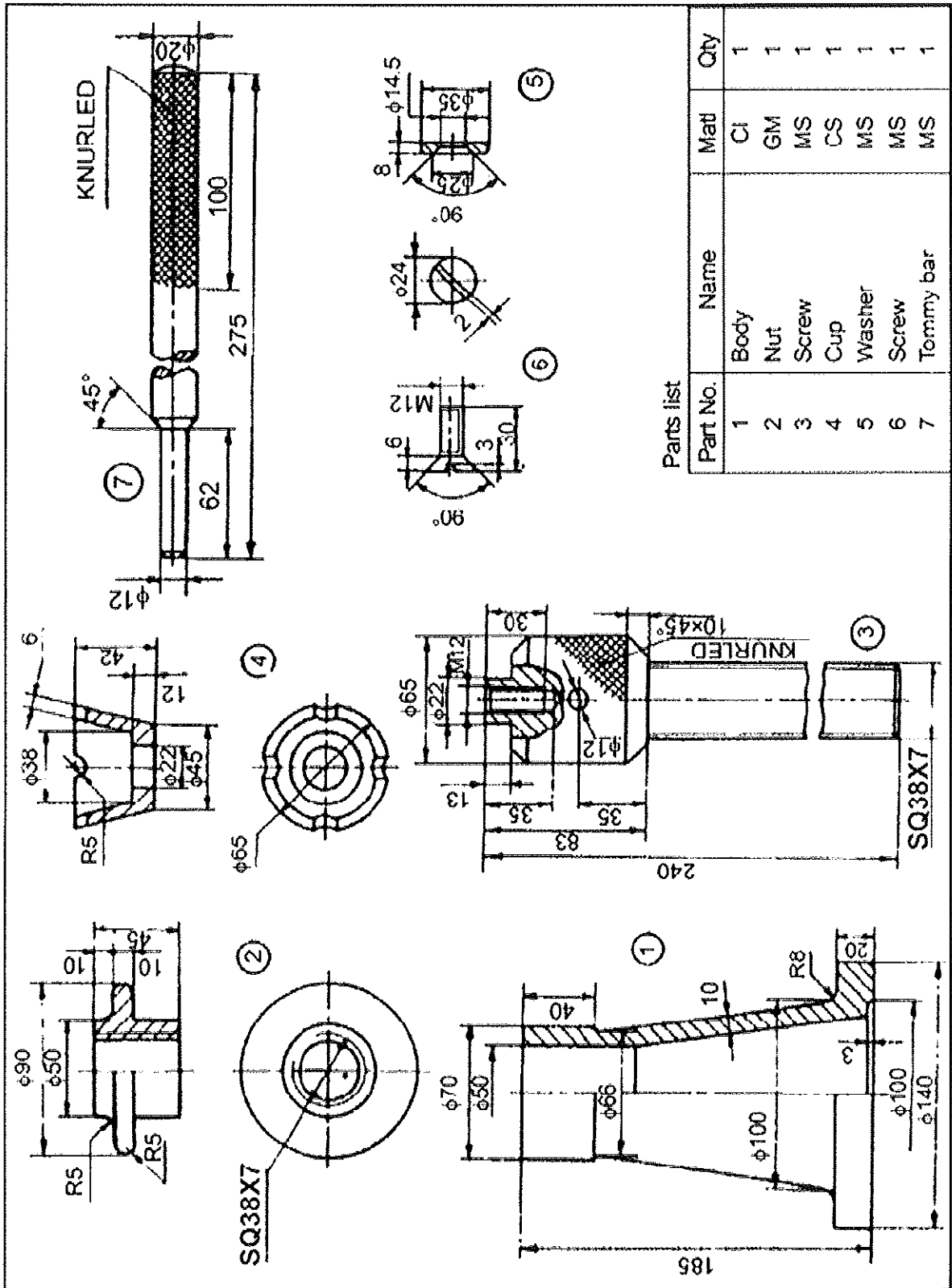


Figure 2