

Fourth Semester B.E. Degree Examination, December 2018

(Automobile Engineering)

COMPUTER AIDED MACHINE DRAWING

Time: 3 Hours

Max. Marks: 80

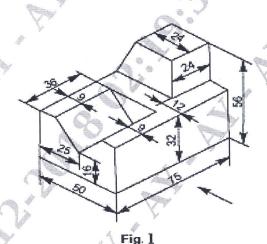
Note: 1. Answer any ONE question from each of the parts A, B and C.

- 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 A Pentagonal pyramid of 20mm edge of base and 40mm high stands vertically with its base on HP and an edge of the base perpendicular to VP. A section plane perpendicular to HP and inclined 30° to VP cuts the pyramid such that it passes through the pyramid at a shortest distance of 5mm from its axis and in front of it. Draw its sectional front view and project the true shape of the section. (15 Marks)
- **Q.No.2** Draw the following views for the given machine component shown in fig. 1.
 - a) Front View b) Top view.

(15 Marks)



PART - B

- Q.No.3 Draw sectional front view & Top View of the Double Riveted Lap Joint, with Zig-Zag riveting. Taking t=9mm.Indicate dimensions. (Minimum three rows). (15 Marks)
- Q.No.4 Draw the following vies of a 'Universal Coupling 'used to connect two 20mm diameter shafts. a) Sectional Front view b) Profile view. (15 Marks)

PART - C

- Q.No.5 Draw a Half sectional front view and top of a Plumber block assembly (Figure 2).

 (50 Marks)
- Q.No.6 Details of IC Engine Connecting Rod are shown in the following figure 3. Assemble the parts and draw the following views.
 a) Sectional Front View b) Side view (50 Marks)

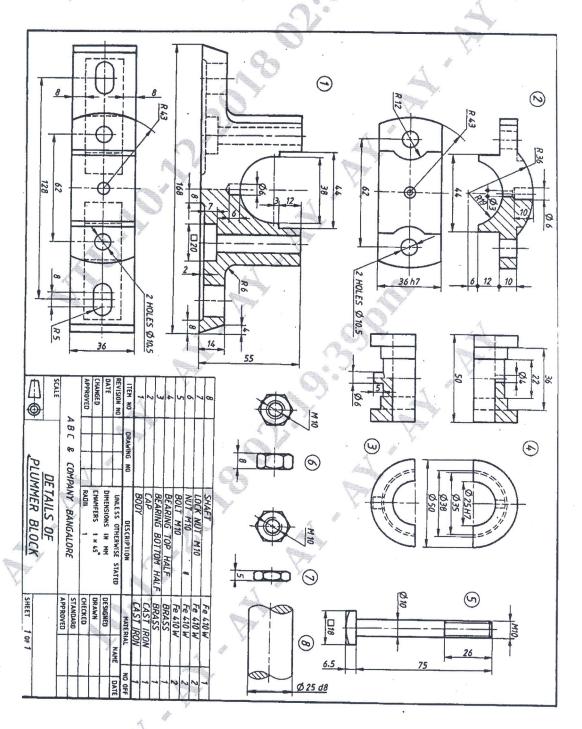


Figure 2: Details of Plummer Block

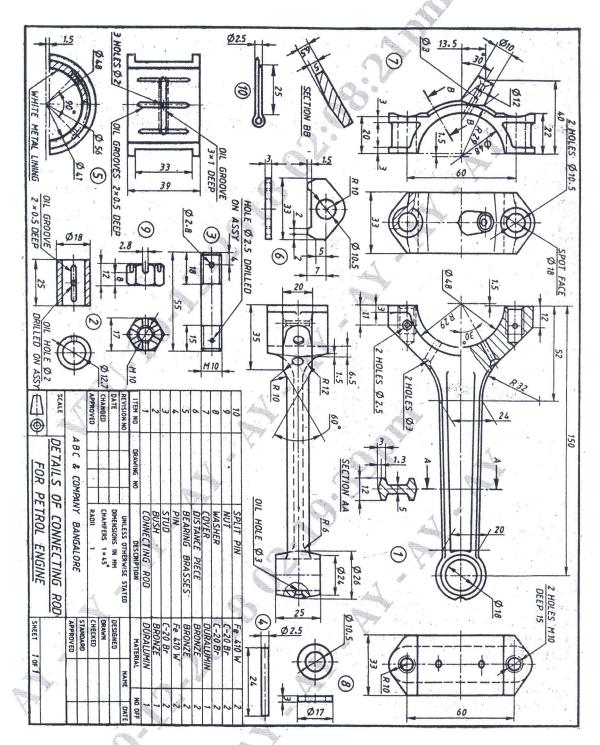


Figure 3: Details of Connecting Rod