

**Total No. of Pages : 03**

**Total No. of Questions : 09**

**B.Tech.(ME) (2018 Batch) (Sem.-3)**

# MACHINE DRAWING

**Subject Code : BTME-303-18**

**M.Code : 76419**

**Time : 3 Hrs.**

**Max. Marks : 60**

**INSTRUCTIONS TO CANDIDATES :**

1. There are three sections in this question paper. Attempt ALL the questions from SECTION-A.
2. Attempt any TWO questions from SECTION-B and any ONE question from SECTION-C.
3. First angle projection to be used. You may assume any missing dimension.

## SECTION-A

**Q1. Write briefly :**

- a) Explain clearance fit, transition fit and interference fit. 2
- b) Draw a machining symbol to represent a surface roughness ( $R_a$ ) value of  $1.5 \mu\text{m}$  to be obtained by using milling process for machining? 2
- c) How internal threads are shown in sections? Explain with drawings. 2
- d) What is function of clearance in cotter joint? 2
- e) What is a lock nut? Where is it used? 2
- f) What is expansion joint? 2
- g) What is application and function of a feed check valve? 2
- h) What is a T-Bolt and where is it used? 2
- i) What is a revolved section? Explain with the help of a drawing. 2
- j) What is application of foot step bearing? 2



Q6. Assemble the parts of a **Plummer block** given in Fig.2 and draw the following views (with bill of materials):

- Elevation left half in section
- Plan

30

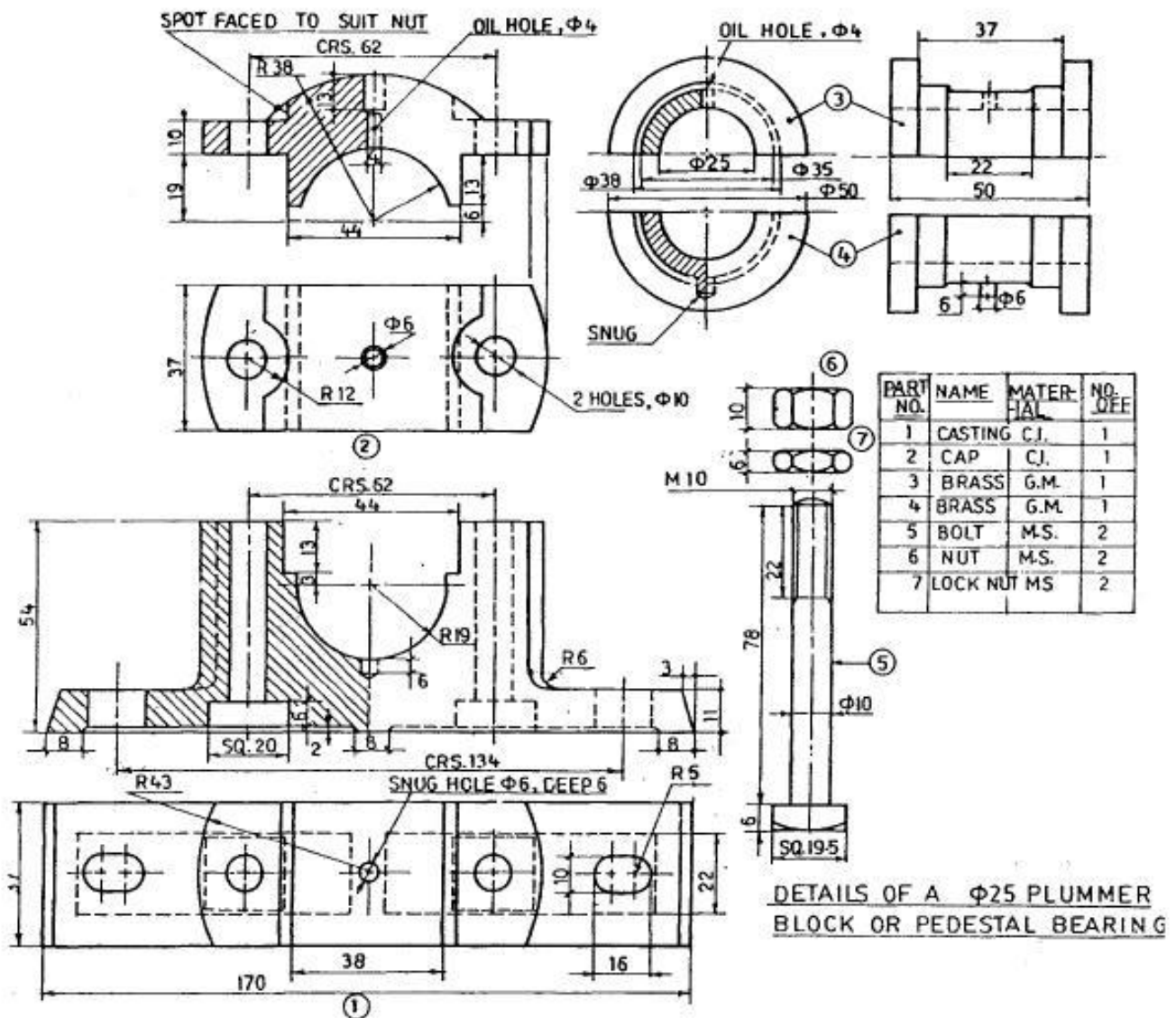


Fig. 2

**NOTE :** Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.