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Total No. of Pages : 03

Total No. of Questions : 07

B.Tech.(ME) (Sem.–3rd)

MACHINE DRAWING

Subject Code : BTME-303 (2011 Batch)

Paper ID : [A1140]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of NINE questions carrying TWO marks each.
2. SECTION-B contains FOUR questions carrying FOUR marks each and students has to attempt any THREE questions.
3. SECTION-C contains TWO questions carrying THIRTY marks each and students has to attempt any ONE questions.

SECTION-A

1. Write briefly :

- (a) Name the two systems of dimensioning and show one of them with the help of a suitable sketch.
- (b) What is a revolved section? Show it with the help of a sketch.
- (c) Show the sectional lining in the adjacent parts.
- (d) How the ribs and lugs are shown in section?
- (e) Show the conventional representation of a splined shaft.
- (f) What do you mean by machining symbols and why they are used?
- (g) Name the meaning of the following symbols :
 - (i) \perp
 - (ii) M
- (h) What do you mean by TOLERANCE and why it is necessary to give tolerance on machining parts?
- (i) Name atleast four types of screw threads and sketch one of them.

SECTION-B

2. Draw the elevation and plan of a hexagonal Nut of suitable size.
3. Show the Thread Nomenclature with the help of a sketch.
4. Show the following weld joints :
 - (i) Single-V Butt Weld
 - (ii) Fillet Weld
 - (iii) Lap Joint
 - (iv) Double-V Butt Weld
5. Show a single rivetted Lap Joint with the help of elevation and plan.

SECTION-C

6. Draw the elevation and plan of the wall bracket shown in Figure 1.

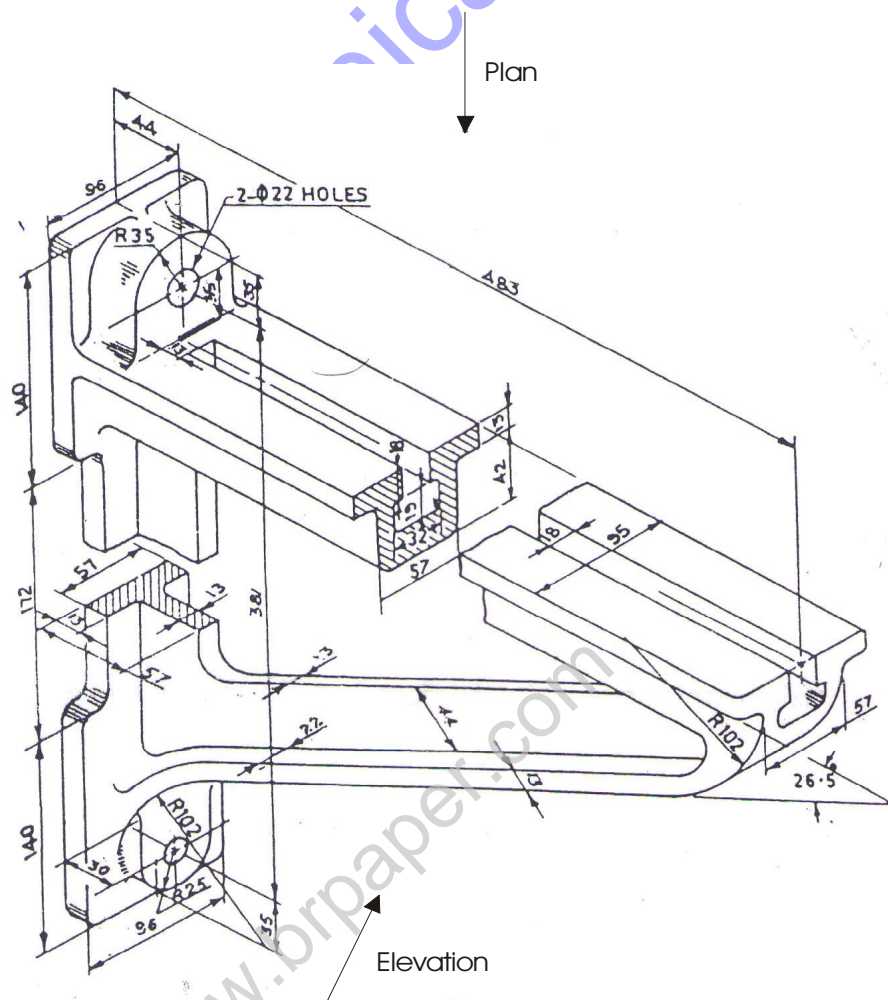


Figure 1 Wall Bracket

7. Figure 2 shows the Details of a Plummer Block. Draw the Assembly of the same and show it by drawing elevation of left half in section and simple plan.

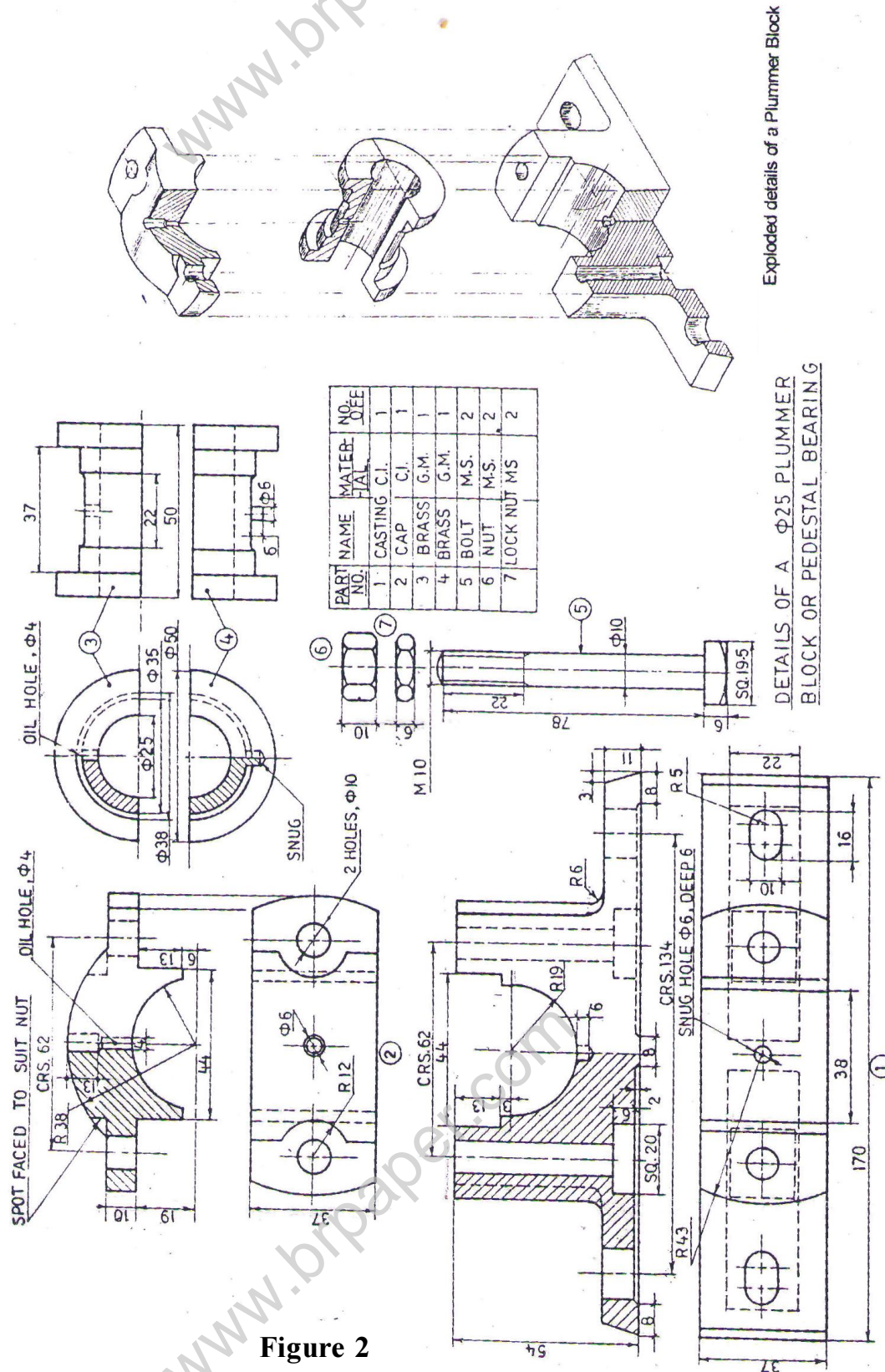


Figure 2