Code No. : 6385/N

FACULTY OF ENGINEERING
B.E. 4/4 (M/P) I Semester (New) (Suppl.) Examination, June/July 2010
PRODUCTION DRAWING

Time: 3 Hours] [Max. Marks : 75

*Note : Answer **all** questions **missing** data, if any may **suitably** be assumed, tolerance table to be **provided**.*

PART – A 25

1. What are the different standard sizes of drawing sheets ? Give their designations and sizes.
2. Give the conventional representation of Ratchet and Pinion.
3. Show the symbolic representation of a Hydraulic pressure intensifier.
4. Distinguish between clearance fit, interference fit and transition fit.
5. Find the limits of the following shafts and holes 20 h 6, 60p7, 20H 6 and 75 H11.
6. Indicate the roughness symbols and roughness values for Roughness Grades N9 and N1.
7. Give the description for the following notes on a drawing.

   THD RELIEF, ϕ30 WIDE 4.5.

8. Explain the following symbol

◎	0.02

9. Expand the following abbreviations

   a) HTS b) BRC c) CSK

10. Indicate the recommended tolerance grades for the following manufacturing processes.

    a) Commercial grinding

    b) Lapping

    c) Reaming.

PART – B 50

11. From the assembly drawing of pipe vice shown in figure 1. Answer the following :

    a) Give the fits for the following : Calpha numeric value and resulting tolerance. 10

        i) Housing (1) and Handle screw (2)

        ii) Handle bar (3) and Handle bar bush (4)

    b) Draw the following components drawings and give necessary dimensional and geometrical tolerances, surface roughness values and surface treatments. 25

        i) Handle screw (2)

        ii) Handle bar (3)

        iii) Handle bar bush (4)

        iv) JAW (5)

        v) Set screw (6)

    c) Give the process sheet for the component Handle bar (3), indicating work tool orientater drawings. 15

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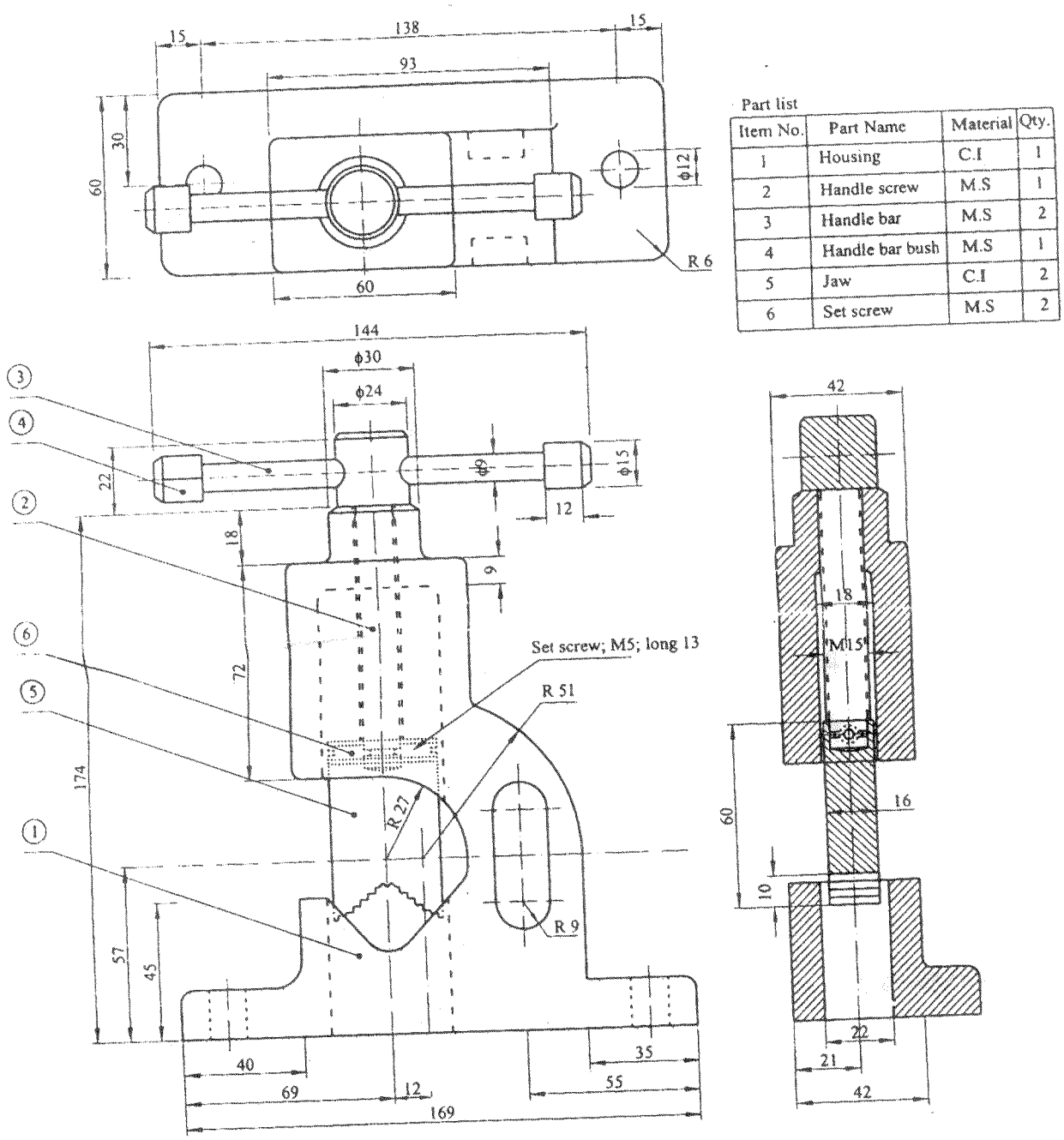

Part list

Item No.	Part Name	Material	Qty.
1	Housing	C.I	1
2	Handle screw	M.S	1
3	Handle bar	M.S	2
4	Handle bar bush	M.S	1
5	Jaw	C.I	2
6	Set screw	M.S	2

Fig. 1.0 Assembly Drawing of Pipe vice

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