



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

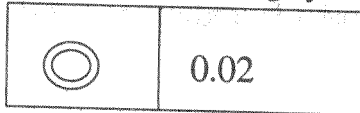
Note : Answer all questions missing data, if any may suitably be assumed, tolerance table to be provided.

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, ϕ 30 WIDE 4.5.

8. Explain the following symbol



9. Expand the following abbreviations

a) HTS

b) BRC

c) CSK

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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**

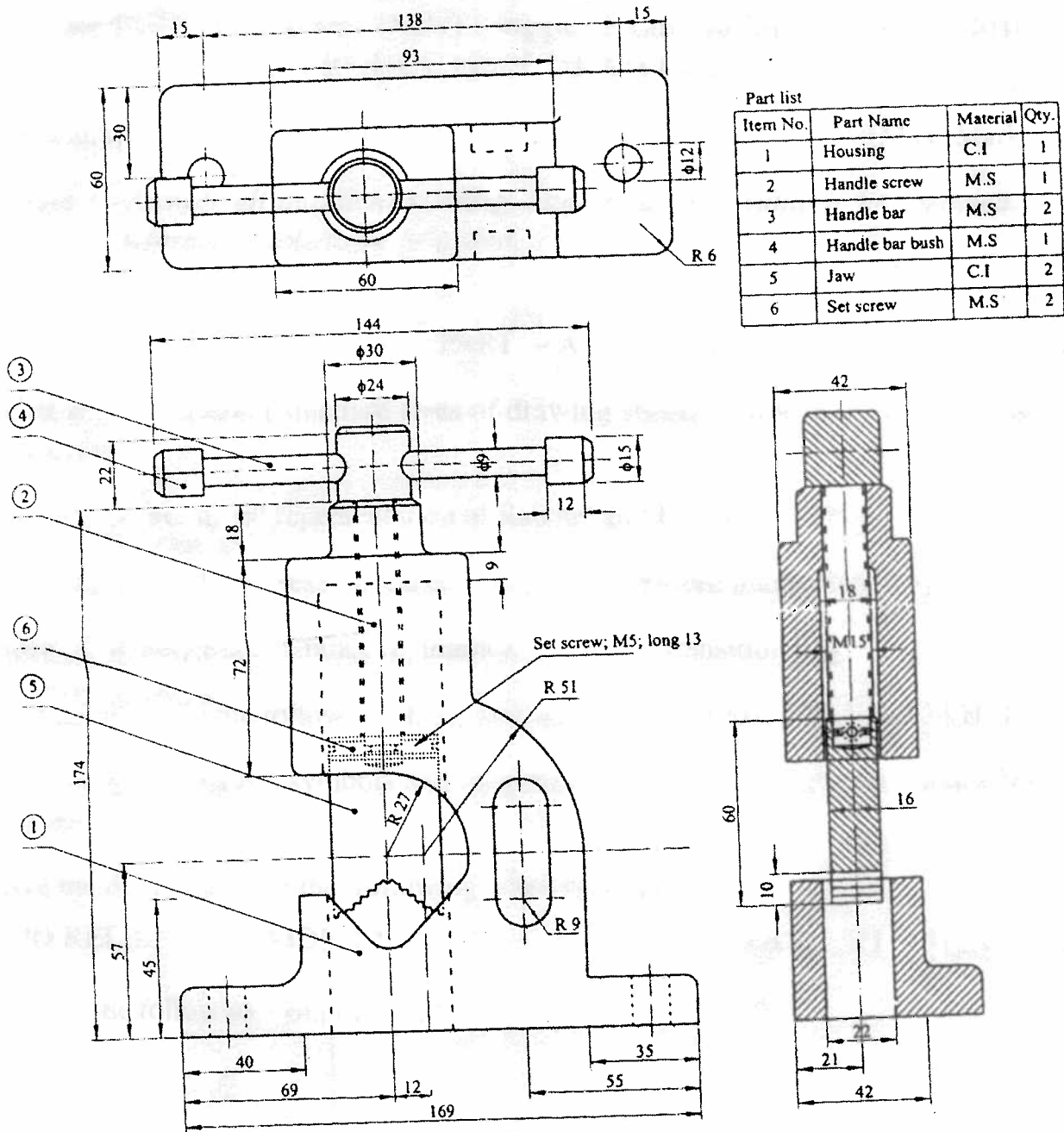


Fig. 1.0 Assembly Drawing of Pipe vice