Reg. No. : .....................................

Name : .....................................

**Fourth Semester B.Tech. Degree Examination, February 2015**
**(2008 Scheme)**
**Branch : Mechanical Engineering**
**08.406 – MACHINE DRAWING (M)**
**(Special Supplementary)**

Time : 4 Hours                                                                 Max. Marks : 100
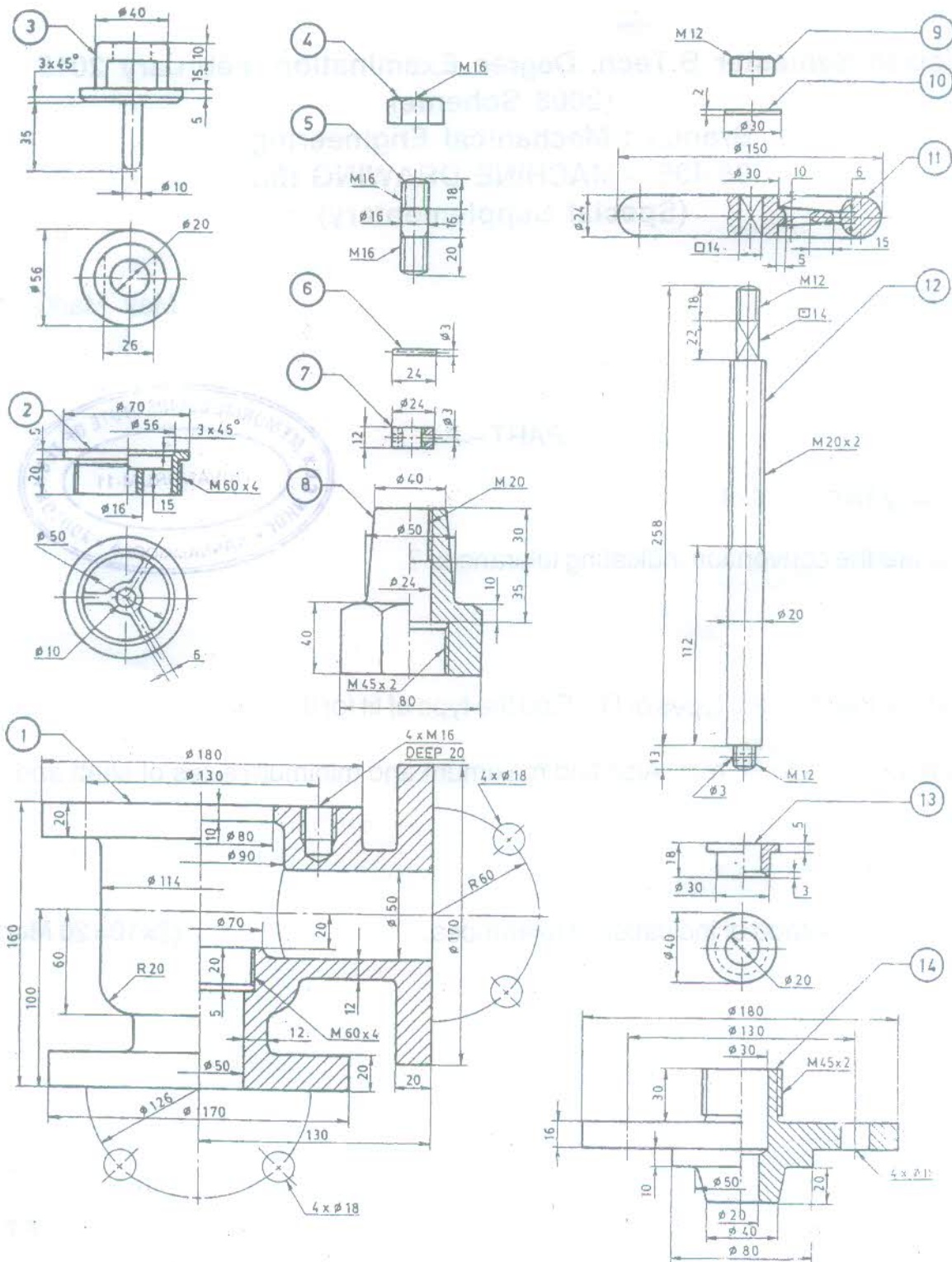
PART – A

Answer **any two** questions.

1. What are the convention indicating tolerances ?

2. What are the different types of fits. Find the type of fit for the shaft size $25^{-0.02}$ mm and hole size $25^{0.04}_{0.02}$ mm. Also find maximum and minimum sizes of shaft and hole.

3. Explain the method of indication of tolerances.                      **(2×10=20 Marks)**

# PART – B

4. Assemble the parts of the steam stop valve and draw the sectional elevation and top view.

(60+20)

## ITEM LIST

| Item | Description | Qty. | Material |
|------|-------------|------|----------|
| 1 | Body | 1 | C.I. |
| 2 | Valve Seat | 1 | G.M. |
| 3 | Valve | 1 | G.M. |
| 4 | Nut for stud | 4 | M.S. |
| 5 | Stud | 4 | M.S. |
| 6 | Pin for collar | 1 | G.M. |
| 7 | Collar nut | 1 | G.M. |
| 8 | Gland nut | 1 | M.S. |
| 9 | Nut for spindle | 1 | M.S. |
| 10 | Washer | 1 | M.S. |
| 11 | Hand wheel | 1 | C.I. |
| 12 | Spindle | 1 | M.S. |
| 13 | Gland bush | 1 | G.M. |
| 14 | Cover | 1 | C.I. |