

**Machine Drawing**  
(ME-205, Dec 2003)

Time: 4 Hrs

Max Marks: 60

**Note:** Section A is compulsory. Attempt any four questions from Section B and two from Section C.

**Section-A**

1. (a) What are multi start threads? Where are these used and why?  
(b) Why are the edges of welding parts prepared?  
(c) Explain unilateral and bilateral tolerance.  
(d) Why sectional views are used in drawing?  
(e) Draw the cross-sectional representation and symbol of single v-but and single u-but.  
(f) What are the advantages of providing protective flanges?  
(g) Explain with a simple sketch the unidirectional system of dimensioning.  
(h) What are the advantages of plumber block over closed and open bearings?  
(i) What are the functions of steam stop valve?  
(j) What is the use of tailstock in a lathe and how is it operated?

**Section-B**

2. Draw the conventional representation of steel, brass, asbestos, concrete and oil.
3. Explain with the help of sketches:
  - (a) Chain dimensioning
  - (b) Parallel dimensioning
  - (c) Combined dimensioning
4. Draw the symbols used for indication of surface roughness.
5. Draw the BSW thread section to a scale full size and give all the standard proportion. Take pitch of the thread = 40 mm.
6. Show by neat sketches the following pipe fittings:
  - (a) Bend
  - (b) Elbow
  - (c) Tee
  - (d) Plug
  - (e) Cross

**Section-C**

7. Draw the full sectional front view of the Swivel Bearing assembly as shown in Fig.

Fig.

8. Draw the full sectional front view of an Eccentric assembly as shown in Fig.

Fig.

9. Draw the full sectional front view of a Blow off cock assembly as shown in Fig.

Fig.