Engineering Drawing (ME-102, May 2005)

Time: 3 Hrs

Max Marks: 60

Note: Section A is compulsory. Attempt any five questions from Section B and C taking at least two from each Section.

Section-A

- 1. (a) Where and why is a cutting plane drawn in a drawing?
 - (b) What do you mean by single stroke letters?
 - (c) What are oblique planes?
 - (d) Give the various positions of isometric axes.
 - (e) What is the importance of dimensioning?
 - (f) What do you mean by development of surfaces?
 - (g) Why the layout of sheet is necessary?
 - (h) Why the solids are sectioned?
 - (i) What are the apparent angles of inclinations?
 - (j) When the auxiliary planes are used?

Section-B

- 2. Draw the projection of a pentagonal pyramid base 30 mm edge and axis 40 mm long is resting on horizontal plane with one of its base edge inclined at angle of 30⁹ with VP.
- 3. Draw the plan and elevation of a cone (base dia = 30 mm. height = 60 mm) when its axis is inclined at 40° to HP and 50° to VP.
- 4. Draw a diagonal scale of 1:2.5 showing centimeters and millimeters and long enough to measure up to 20 centimeters. Show a distance of 13.4 cm on it.
- 5. Draw the projections of a square lamina of 30 mm side, the plane of which is inclined at 40^o to the HP and one of its diagonal is horizontal.

Section-C

- 6. A cube of 30 mm sides rests on the top of a cylindrical slab of 500 mm diameter and 30 mm thick. The axes of the solids are in same straight line. Draw an isometric projection of the solid.
- 7. Draw the development of a sphere of 60 mm diameter by the zone method.
- 8. Two circular pipes 70 mm and 50 mm diameters meet each other at 35°. The axes of both the pipes are in one plane and the larger diameter pipe is vertical. Draw the projections showing the curves of intersection.
- 9. Draw the free hand sketches of foot step bearing (front and top views). Show the mean dimensions also.

Download free old Question papers gndu, ptu hp board, punjab board