MCP 100 MINOR 2 (6th Oct'17) Time: 1 hour 10 mins (Total Marks: 32)

ANKIT KUMAR SINGH 2017CS10328

Note: Attempt all the questions. All the dimensions are in "mm". Draw the border line and fill the title block on the drawing sheet before submission.

Q1. Draw the side view and sectional front view of the machine part, when it is cut by a cutting plane AB as shown in Fig. 1 in 3rd angle of projection. **(Marks 12)**

Marks distribution is as follows:

1. Side view – 6 Marks
2. Sectional front view – 6 Marks

Q2. A cube with 45 mm edge rests on HP with vertical faces equally inclined to the VP. It is cut by an auxiliary inclined plane, perpendicular to the VP and bisecting the vertical axis of the cube so that the true shape of section is a regular hexagon. Draw the front view, sectional top view, true shape of the section and lateral surface development of the remaining cube. Also, determine the inclination of the sectional auxiliary plane with the HP. **(Marks 15)**

Marks distribution is as follows:

1. Two views – 6 Marks
2. True Shape – 2 Marks
3. Specifying inclination – 1 Mark
4. Development – 6 Marks

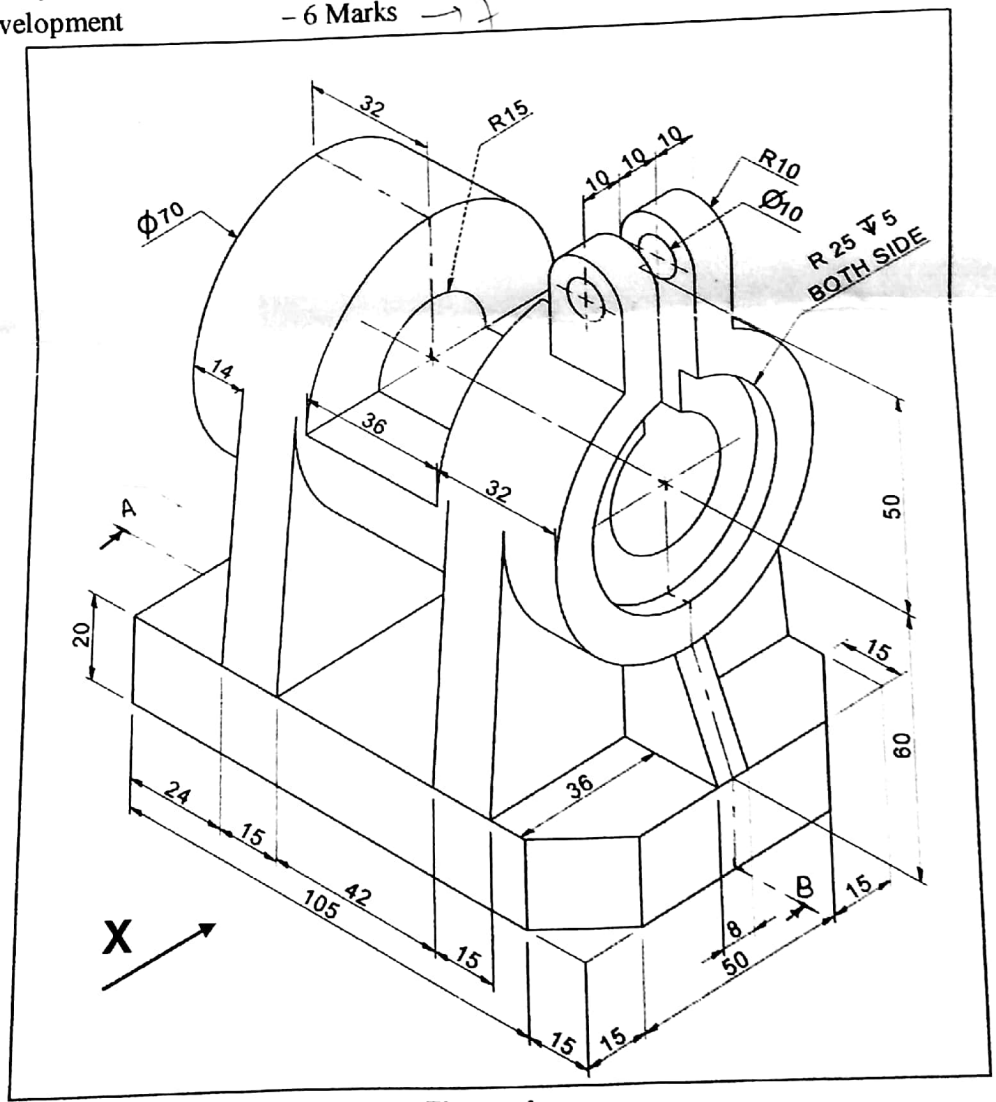

Figure 1

Scanned by CamScanner