

PIET's College of Engineering, Pune - 5
End Semester Examination
(ME-103)- Engineering Graphics-II

Programme : F.Y. B.Tech. (All branches)

Year: 2005-06

Duration: 4 Hours

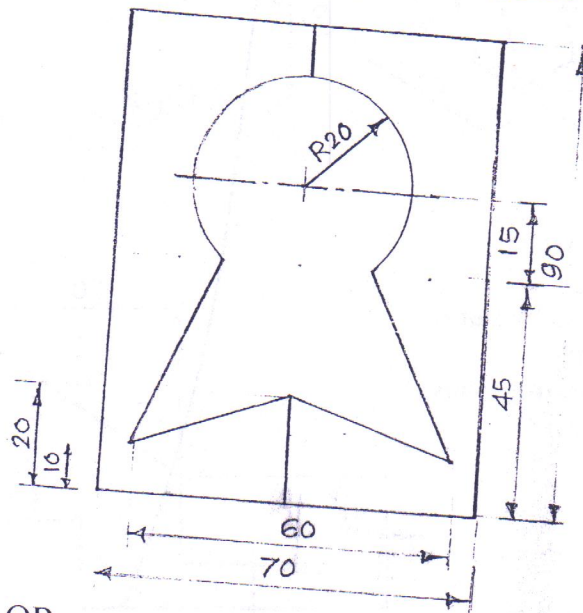
Instructions:

Date :

Max. Marks: 60

1. Figures to the right indicate full marks.
2. Retain all construction lines.

- Q.1 A regular Pentagonal Prism of base sides 55 mm and axis 100 mm long rests on its base on H.P. with a rectangular face parallel to V.P. and away from the observer. It is completely penetrated by a horizontal square prism of base sides 60 mm such that the axis of the square prism is parallel to V.P. and bisects the axis of the pentagonal prism at right angles. The rectangular faces of the square prism are equally inclined to H.P. Draw three views of the combination, showing the lines of intersection. (10)
- Q.2 The figure 1 shows the front view of an equilateral triangular prism with a slot through it. Draw development of the lateral surface of the prism. (10)



OR

Fig. 1

- Q.2 A square pyramid O-ABCD, 50 mm side of base and 70 mm length of axis, is resting on its base on H.P. with the base side AB nearest to observer and inclined at 30° to V.P. The Point 'P' starts from the midpoint M of the base side AB, travels over the lateral surface of the pyramid and returns back to the same starting position, by shortest path. Draw elevation and plan of the pyramid showing the path of the point 'P'. Also find the distance traveled by the point 'P'.

