

**PIET'S**  
**College Of Engineering, Pune-5.**  
**Engineering Graphics-I**

Programme :F.Y.B.Tech.(All Branches)  
Date : 19-01-2007  
Duration:2 Hrs.

Pract .Exam.(Repeaters)  
Max.Marks:50

- Instructions: 1)Solve any four questions.  
2)Assume suitable data wherever necessary.  
3)Fig. to the right indicates full marks.  
4)Retain all the construction lines.

- Que.1.Draw the locus of point P which moves in such a way that the ratio is always Constant and is equal to  $5/3$ . The fixed point is 60 mm away from fixed straight line. Draw the tangent and normal to the curve at a point on the curve 70 mm from fixed straight line .Name the curve. (8)
- Que.2.Aline PQ100 mm long is inclined at  $30^\circ$  to HP and  $45^\circ$  to VP. It' send P is 10 mm behind VP and is below HP ,while it's HT is 20 mm infront of VP. Draw the projection of line PQ and locate it's VT . (14)
- Que.3. A regular pentagon of 50 mm side is resting on one of it's side on HP, having that Side parallel to and 25 mm infront of VP. It is tilted about about that side so that it's highest corner rests in VP. Draw the projection of pentagon. (14)
- Que.4. A hexagonal pyramid of 25 mm side is base and axis 50 mm long, rests with one of the corner of it's base on HP. The axis is inclined at  $30^\circ$  to HP and  $45^\circ$  to VP. Draw it's projection. (14)
- Que.5. A cone base diameter 40 mm and axis 60 mm long rests with it's base on HP. It is cut by section plane perpendicular to VP, parallel to one of the generator and passing through a point on axis at a distance of 25 mm from apex. Draw the sectional top view and true shape of the section. (14)

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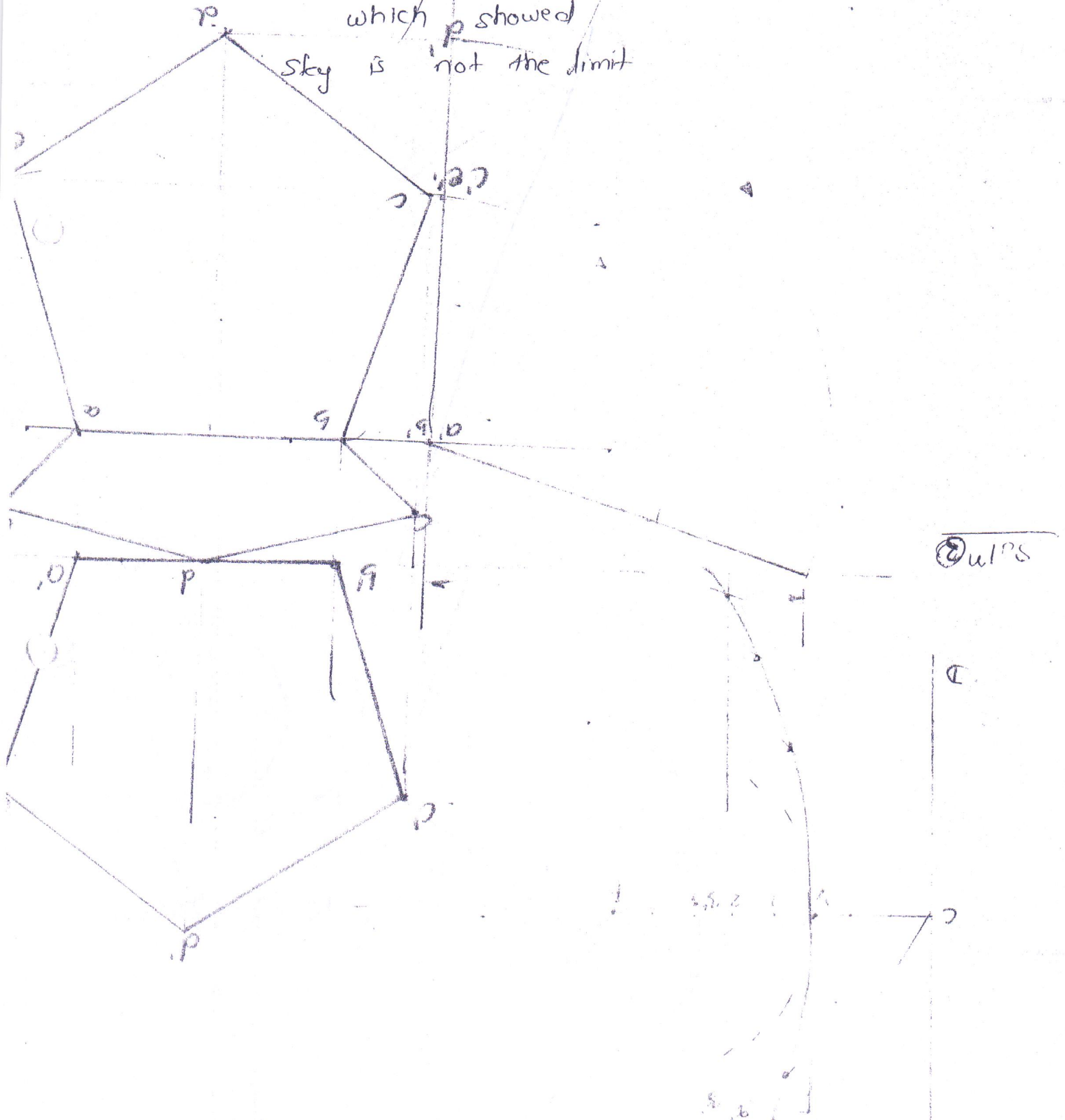
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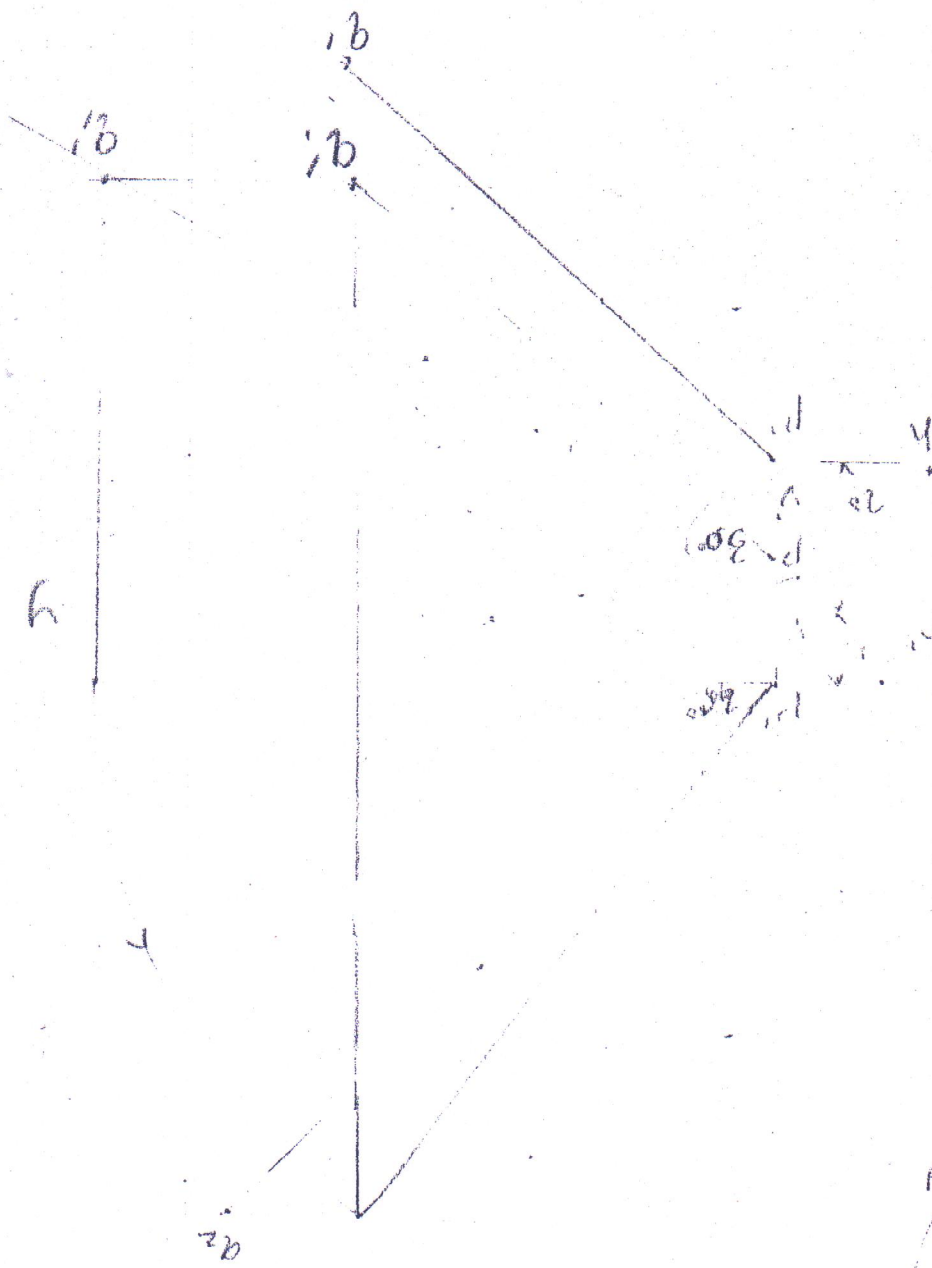
A light which showed gave  
vision world beyond horizon

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A constellation of stars  
which showed

sky is not the limit





Soln 2:

