POKHARA UNIVERSITY

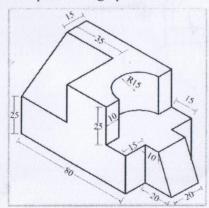
Level: Bachelor Semester:Fall Year: 2020
Programme:BE Full Marks: 100
Course: Engineering Drawing Pass Marks: 45
Time: 3hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

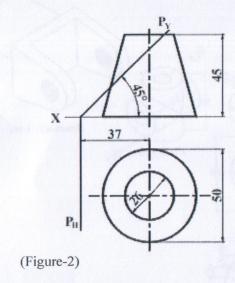
Attempt all the questions.

- 1. Draw a hypocycloid given the radii of rolling and directing circles as r=20mm and R=80mm, respectively. Also draw a normal and tangent at any given point on the curve.
- 2. A regular pentagon of 25 mm side is perpendicular to VP and 45⁰ to HP. Draw its projections when one of its sides is in HP and its nearest point to VP is 25 mm from it.
- 3. Draw the complete orthographic views of the given object. (Figure-1)

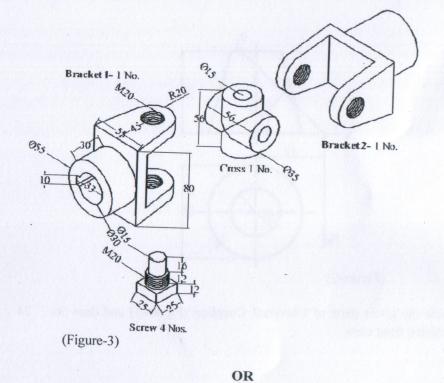


(Figure-1)

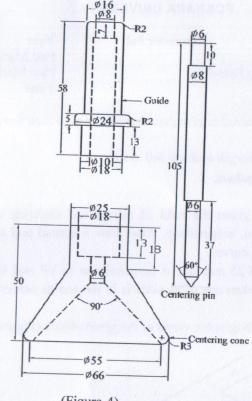
- 4. A circular base pyramid is cut by a cutting plane as shown in figure 2. 18 Reproduce the given figure and draw:
 - a) Sectional top view.
 - b) True shape of the section.
 - c) Lateral surface development of the object.



5. Assemble the given parts of Universal Coupling (Figure-3) and draw its full sectional front view.



Assemble the given parts of centering cone (Figure 4) and draw its full sectional front view.



(Figure-4)