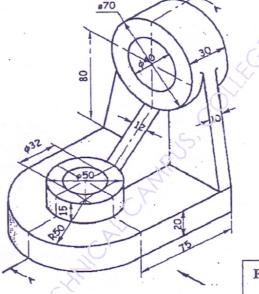
## **QP Code: 3143**

Mark: 75 (OLD) Time: 3Hrs

- 1. Question No 1 is compulsory. Solve any four from remaining
- 2. Use your own judgment for any unspecified dimension
- 3. Solve by first angle method only
- 4. Retain all construction lines
- Q1. Fig 1 shows pictorial view of an object. Draw following

(15

- i) Sectional Front view along AA
- ii) Top view
- iii) Left Hand Side view



- Fig.1
- Q 2. A regular pentagonal pyramid sides of 30mm and axis height 60mm lying in one of its triangular surface on HP so that the top view of the axis is inclined at 45° to VP. Draw its projections when its apex is nearer to VP. (15)
- Q3. A cylinder of base 60mm diameter and 80mm long is resting on its circular base on the HP. A section plane perpendicular to VP and inclined at 60° to HP cuts the axis at a point 20mm from its top end. Draw the Front view, sectional top view and true shape of the section. Also draw the development. (15)
- Q 4. a) A line AB is 90mm long is inclined at 45° to the HP and its top view makes an angle of 60° with XV. The end A is in the HP and 15mm in front of the VP. Draw its projections and find its true inclination with the VP. (12)
  - b) Draw Front view and Top view of the hexagonal nut

(3)

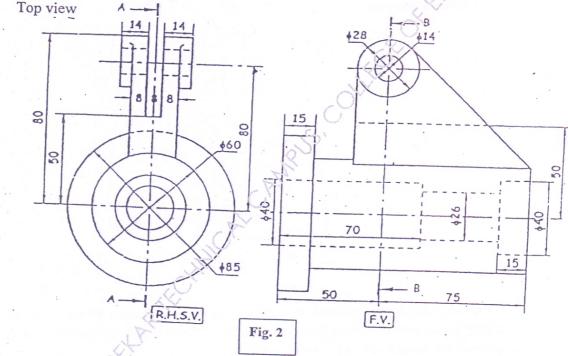
**[TURN OVER** 

RJ-Con. 9011-15.

- a) Draw an involute for a circle of 50mm diameter. Draw tangent and normal at any point on the curve.
  - b) Draw free hand sketches of the following
  - i) Conventional representation of internal and external threads

ii) Wing nut (Two views)

- Q6. Fig 2 shows front view and right hand side view of an object. Draw Draw sectional front view along AA i)
  - ii) Sectional side view along BB
  - iii)



Q7. Fig 3 shows two views of an object, draw isometric view of it using natural scale. (15)

