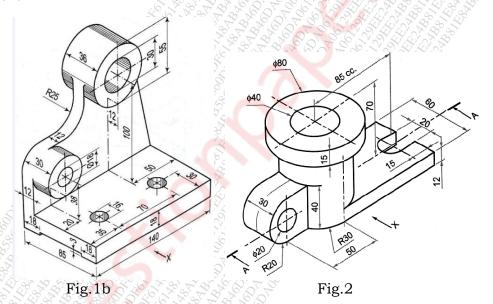
Q. P. Code: 50063

(REVISED COURSE)

[3 Hours] [Total Marks: 60]

- 1. Question No. 1 is compulsory.
- 2. Answer any Three questions out of remaining Five questions.
- 3. Use only Drawing Sheets for answering.
- 4. Use your judgement for any unspecified diminution.
- 5. Use First Angle Method of projection only.
- 6. Retain all construction Lines.
- Q.1 a. A circle of 60mm diameter rolls along a straight line without slipping, draw the curve traced by a point 'P' on the circumference of the circle for one complete revolution.
 - b. The pictorial view of a machine part is given in Fig. 1b Draw
 - (i) Front View in the direction of 'X'
 (ii) Top View.
 (4)
 - (iii) Insert at least 10 major dimensions. (1)



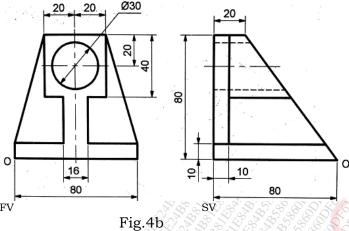
- Q.2 Fig.2 shows a pictorial view of a machine part, Draw:
 - (a) Sectional Front View looking along 'X' (Section A-A) (5)
 - (b) Top View (4)

 - (d) Insert at least 10 major dimensions. (2)
- Q.3 A hexagonal pyramid of 30mm edge of base and 70mm length of axis has base edge on the HP. The axis is inclined at 30° to HP. and 45° to VP. Draw the projections.
- Q.4 a. A cylinder of base diameter 50mm and height 60mm is resting on a point on base circle on H.P. with axis inclined at 30° to H.P. Draw its projections.

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b. Draw an isometric view of the Fig.4b object using natural scale. (9)



Q.5 A cone base 50mm diameter and axis 65mm long is resting on its base on the H.P A section plane perpendicular to V.P and inclined at 45° to H.P cuts the cone, bisecting its axis. Draw front view, sectional top view, sectional side view and the true shape of the section and also draw its development of lateral surface.

- Q.6 a. A line AB 70mm long is inclined at an angle of 30° to HP and 45° to (9) VP. Its end point 'A' is 20mm above HP and 25mm in front of VP. Draw the projections when point 'B' is in the first quadrant.
 - b. Draw an isometric view of the following object using natural scale. (6)

