Roll No. Total No. of Questions : 09]

[Total No. of Pages : 02

B. Tech. (Sem. – 1st/2nd) ENGINEERING DRAWING <u>SUBJECT CODE</u> : ME – 102 (2004-10 Batch) <u>Paper ID</u> : [A0125]

Time : 03 Hours Instruction to Candidates:

Maximum Marks : 60

- 1) Section A is Compulsory.
- 2) Attempt any **Five** questions from Section B & C.
- 3) Select at least **Two** questions from Section B & C.

Section – A

(2 marks each)

- QI) a) Draw the symbol for Ist and IIIrd angle projection.
 - b) Show the Aligned system of dimensioning with the help of a suitable sketch.
 - c)
 - d) What is a sectional view? Why sectional views are used in Drawing.
 - e) What is the difference between an isometric view and an isometric projection?
 - f) What is a Profile plane and what is its utility?
 - g) What is meant by trace of a line? Draw the trace of a line when it is parallel to VP and inclined to HP.
 - h) What are solids of revolution? Name them and how they are gousated.
 - i) Draw the frustom of a cone.
 - j) List the various methods of Development and explain the parallel line method.
- Section B (8 marks each)
 Q2) The distance between two cities A & B is 300 kilometers. Its equivalent distance on the map measures only 6 centimeters. What is the R.F. Further draw the diagonal scale to show hundreds of kilometers, tens of kilometers and kilometers. Indicate a distance of 313 kilometers on the scale.
- **Q3)** A point P is 25 mm above HP and its shortest distance from x y is 50 mm. The point P lies in Ist quadrant, draw its projection.
- **Q4**) A straight line AB, 60 mm long makes an angle of 30° to HP and 45° to VP. The end A is 15 mm in front of VP and 20 mm a bore HP. Draw its projections.
- **Q5**) A hexagonal pyramid, side of base 25 mm and axis 50 mm long is resting on an edge of its base on the HP with its axis inclined at 30° to HP and parallel to VP. Draw its projections.

Section – C (8 marks each)

Q6) A hexagonal pyramid of base side 25 mm and height 50 mm is resting on a horizontal plane. Draw the isometric view of the pyramid.

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- **Q7**) A pentagonal prism of 25 mm base edges and 50 mm long is resting on its base with an edge of base inclined at 45° to VP. The prism is cut by a sectional plane inclined at 30° to HP and passes through a point 25 mm from the base along its axis. Develop the lateral surface of the truncated prism.
- Q8) Draw the front view, top view and right side view in the directions as shown in the figure below.



Q9) Draw the development of a sphere of 40 mm dia by Zore method.

 \mathfrak{RRR}