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Total No. of Pages : 03

Total No. of Questions : 09

B.Tech. (Sem.-1st & 2nd)

ENGINEERING DRAWING & COMPUTER GRAPHICS

Subject Code : ME-102 (2005-2010 Batch)

Paper ID : [A0125]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying EIGHT marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

1. Answer briefly :

(a) What is Gothic Lettering ? Write with free hand the following words in Gothic Lettering.

“ELECTRICAL ENGINEERING”

(b) Draw the continuous thick and continuous thin lines and write their applications.

(c) What do you mean by reducing and the enlarging scales ?

(d) Differentiate between 1st angle and 3rd angle methods of projections.

(e) What is meant by orthographic projections ?

(f) Name the systems of dimensioning and show one of them with the help of a sketch.

(g) Draw the projection of a point 15 mm above H.P. and 20 mm in front of V.P.

(h) List the various methods of finding the true length of a line.

(i) Classify the solids and differentiate between a pyramid and prism.

(j) Draw the isometric scale.

SECTION-B

- The distance between two stations A and B is 100 kilometres and its equivalent distance on railway map measures 2.5 cms. Find out RF. Draw a diagonal scale showing single kilometers and indicate on the scale a distance of 577 km.
- Draw the projections of the following points in third quadrant when the;
 - Point A lies in HP and 25 mm away from VP.
 - Point B lies in VP and 35 mm away from HP.
- A straight line PQ 50 mm long makes an angle of 45° with HP and 30° with VP. The end P is 20 mm in front of VP and 25 mm above HP. Draw its projections.
- A hexagonal pyramid, side of base 25 mm and axis 50 mm long is resting on an edge of its base in the HP with its axis inclined at 30° to HP and parallel to VP. Draw its projections.

SECTION-C

- A cylindrical slab of 70 mm dia and 40 mm thick is surmounted by a cube of 35 mm edge. Draw the isometric projection of the two solids i.e. cube resting centrally on the cylindrical slab.
- Draw the front view in the direction of 'A' and top view in the direction of 'B' of the object shown below.

