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Roll No.

Total No. of Questions: 09] [Total No. of Pages: 02

B. Tech. (Sem. – 1st)
ENGINEERING DRAWING
SUBJECT CODE: BTME - 102 (2011 Batch)
Paper ID: [A1110]

Time: 03 Hours Maximum Marks: 60

Instruction to Candidates:

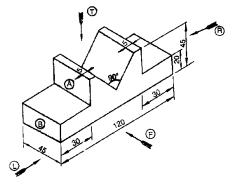
- 1) Section A is Compulsory.
- 2) Attempt any **Five** questions from section B & C.
- 3) Selecting at least **two** questions from section B & C.

Section - A (2 Marks each)

- Q1) a) How do we classify lettering and state what is GOTHIC LETTERING.
 - b) Name the systems of dimensioning and show one of them with free hand Drawing.
 - c) Name the different sizes of scale and give example of enlarging scale.
 - d) What do you mean by ORTHOGRAPHIC projections?
 - e) Draw free hand; the Isometric scale.
 - f) Differentiate between First Angle and third angle projection.
 - g) What are the principal planes of projections show them with free hand sketch?
 - h) How the solids are divided. Give some examples of Regular polyhedra.
 - i) What do you mean by True section of a solid.
 - j) How do use the development in the practical life.

Section - B (8 Marks each)

Q2) Draw the Front view (F), Top view (T) and Left side view (L) by the First angle projection of the solid shown below:



- Q3) Draw the projections of the following points in First Angle projection.
 - a) Point A lies in HP and 30 mm in front of VP.
 - b) Point B lies in VP and 30 mm above HP.
- **Q4**) A straight line AB, 60 mm long makes an angle of 30° to HP and 60° to VP. The one end of the line AB lies in HP and is 20 mm in front of VP. Draw its Projections.
- Q5) A hexagonal prism base edge 25 mm and height 50 mm is resting on an edge of its base on HP in such a manner that the base makes an angle of 45° with HP. Draw its projections.

Section - C (8 Marks each)

- **Q6**) A square pyramid, base edge 25 mm and height 50 mm is resting on its base in HP in such a way that one of its base edges makes an angle of 30° with the VP. It is cut by a sectional plane parallel to HP and passing at a distance of 25mm from the base along the axis. Draw the front view and sectional top view.
- Q7) A vertical cylinder 50 mm dia and height 70 mm standing on its base in HP, is completely penetrated by a horizontal cylinder of the same dia and length. Their axes bisects each other at right angles and are parallel to VP. Draw the projections showing lines of interpenetration.
- **Q8**) A right cylinder of 30 mm diameter and 50 mm height of axis is cut by a sectional plane inclined at 30° to HP and passing 20 mm from base. Draw the development of the truncated cylinder.
- **Q9**) A cube of 40 mm side rests centrally on a square block of 70 mm edges and 30 mm thick. Draw the isometric view of the two objects with edges of the two blocks kept parallel to each other.

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