## Sample Paper

Course: B.TECH.Branch: All BranchDate:
Day:
Time:
Semester: II
Subject
Name:
Engineering GraphicsSubject Code:Max. Marks: 40 Marks

## Instructions:

1. Assume necessary data.
2. Figures to the right indicate full marks
3. Use of steam table/data book/ordinary scientific calculator are permissible
Q. 1 A Draw the projection of given points on a common reference line. ..... 04
i. A, 25 mm above H.P. and 35 mm in front of V.P.
ii. $\quad$ B, 30 mm above H.P. and 40 mm behind V.P.
iii. C, 35 mm below H.P. and 25 mm in front of V.P.
iv. D, on H.P. and 35 mm in front of V.P.B Draw an Ellipse having major axis 120 mm and minor axis 80 mm . Use06concentric Circle method.
C A line $A B, 80 \mathrm{~mm}$ long, has its end $A 15 \mathrm{~mm}$ below H.P. and 20 mm ..... 05 behind V.P. The end $B$ is 55 mm below H.P. and 70 mm behind V.P. Draw the projections of line $A B$ and find its inclinations with H.P. and V.P.
Q. 2 A See Fig.1, Draw (i) Front View (ii) Top View. Use first angle method ..... 06B Construct the in-volute of a hexagon having sides 20 mm .05
OR
B Draw an Archimedean spiral of 1.5 convolutions, the greatest and least ..... 05radius being 80 mm and 20 mm respectively.C A line PQ has its end P, 20 mm above H.P. and 15 mm in front of V.P.05
The end $Q$ is 60 mm above H.P. The distance between the endprojectors is 55 mm . The line is inclined to H.P. by $30^{\circ}$. Draw theprojections and find its inclination with V.P. and true length of line PQ.
ORC A circle of 30 mm radius is rolling on a straight line without slip. Point $P$05is at the point of contact between generating circle and directing line.Draw the locus of point $P$ and name the curve.
$\qquad$
Q. 3 A See Fig.2, Draw (i) Elevation (ii) Plan (iii) LHSV. Use First Angle Method. 09 OR
A See Fig.3, Draw (i) Full Sectional Elevation (ii) Plan and (iii) Left Hand 09 Side view by first angle method.


Fig. 1


Fig. 2


Fig. 3

