8,2		3R 8R 8R 8R 8R R16
	Code	No: 132AE JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
		B.Tech I Year II Semester Examinations, April - 2018
		ENGINEERING GRAPHICS
		(Common to CSE, IT, ETM)
82	Time	3 hours Answer all five questions
Same 1 1		All questions carry equal marks
		Draw the curve traced by a point on the circumference of a circle of 50 mm diameter,
	1.a)	
	b)	which rolls on a straight line for one complete revolution with the straight line for the straight line for one complete revolution with the straight line for the st
Q(x)	U)	up to 1m. Show a distance of 6.3 dm on it.
		$\setminus \mathcal{F} \setminus \setminus \setminus \setminus \cup $
	2.a)	Construct an ellipse inside a rectangle of dimensions 70 mm × 100 mm.
	b)	Continued a diagonal scale of 1:6 to snow declinicies and continued and
		long enough to measure up to 1m. Show a distance of 3.31 diff of the
		A 75 mm long line PQ is inclined at an angle of 30° to the V.P. The end P is on the H.P.
	3.a)	A 75 mm long line PQ is inclined at an angle of 50 mm above the H.P. Draw the projections and 30 mm in front of the V.P. The end Q is 50 mm above the H.P. Draw the projections
$\rightarrow \leftarrow \downarrow \downarrow$		
		of the line. A square lamina with a 40 mm side has its surface parallel to and 30 mm in front of the
	b)	A square lamina with a 40 limit side has its surface parameter parameter at 30° to the H.P. [7+8]
	4.a)	A 75 mm long line PQ, has the end P at 25 mm above the H.P. and 10 mm in front of the
	τ.α)	to the send ton views are full filled by the projections of the send ton views.
	b)	
		the curface perpendicular to the V.P., such that the centre of the plate has
``		above the H.P. and 30 mm in front of the V.P. Draw the projections [7+8]
		A pentagonal pyramid, having a base with a 30 mm side and a 60 mm long axis, has one
0	5.	
		of the edges of the base is in the H.P. The solid is three most of the base on which it is resting point of the base is 40 mm above the H.P. and the edge of the base on which it is resting
•		is parallel to the V.P. Draw its projections.
	6.	A cone, having a base with a 50 mm diameter and a 70 mm long axis, is resting on one of
	0.	its generators on the ground and is inclined at 30 to the v.r. Diaw its projection
		the apex is nearer to the V.P. than to the base.
	7.	A hexagonal prism, having a base with a 30 mm side and a 70 mm long axis, has its face on the H.P. and the axis parallel to V.P. It is cut by a plane, which is perpendicular to V.P. It is cut by a plane, which is perpendicular to V.P. It is cut by a plane, which is perpendicular to V.P. It is cut by a plane, which is perpendicular to V.P. It is cut by a plane, which is perpendicular to V.P. It is cut by a plane, which is perpendicular to V.P. It is cut by a plane, which is perpendicular to V.P. It is cut by a plane, which is perpendicular to V.P. It is cut by a plane, which is perpendicular to V.P. It is cut by a plane and a 70 mm long axis, has its face
Secret formal	e .	on the H.P. and the axis parallel to v.F. it is cut by a praire, which the heavis parallel to v.F. it is cut by a praire, which the heavis parallel to v.F. it is cut by a praire, which the axis braw the sectional front view and makes an angle of 45° with the HP bisecting the axis. Draw the sectional front view
)	and makes an angle of 45 With the rift of secting the latter of the section [15]
	\	and true shape of the section. OR
		11 Lineston 40 mm is resting on its base on the ground. It
	8.	
	i.e	is cut by a section plane inclined at 45 to the ground and passing the best bottom part of cone at height of 20 mm from the base. Develop the lateral surface of the bottom part of [15]
		the solid.
())	OD QD XU XR XR XK
	\ \	OK ON MIN ALL AL, I

