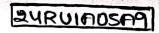
## RAYALASEEMA UNIVERSITY COLLEGE OF ENGINEERING, KURNOOL - 518007

B. Tech II Semester (RU23) I Sessional Tests - March 2025

ENGINEERING GRAPHICS (23AES0302)

(CSE-A)

Time: 120 min		(CSE-A)	(CSE-A)		βP		
		Date: 12-03-2025 FN			Max. Marks: 30		
O	*Answer ONE FULL question from each unit* *All the Questions Carry EQUAL marks*						
Q. No	Question	4	Unit	BT Level	C() covered	Marks Allotted	
1	Plain Scale of RF is 1:40.	To read meters	1	1.3	COL	(10 M)	
	and $\frac{1}{10}$ th meter and lo	ng enough to					
	measure up to 8m. Show	the lengths of					
	4.3m and 6.2m on the scale.	(()D)				1	
2	Draw a hypo-cycloid of a c	(OR) eircle of 40 mm	1	L3	CO1	(10 M)	
_	diameter which rolls inside of 160 mm diameter for	another circle			/		
	1 alcolowice Draw	a tangem and					
	normal to it at a point ou	mm nom the		<i>/</i> .			
3	an ellipse, with	distance of the	11	1.3	('()2	(10 M)	
	focus from the directrix a eccentricity as 4/64 Also draw	w a tangent and					
	normal to the curve at a poi	nt 35 mm from					
	the directrix.	(OR)	1				
-	Draw the projections of	the following	11	1.3	CO2	(10 M)	
4	I was an the same ground II	110,					
	Keeping the projectors 25mi (i) D 25mm below the I	IP and 25mm	<u>, 18</u>				
	behind the VP  (ii) E 15mm above the I	1					
	3/13						
	(iii) F 40mm below the fir	and 25mm in					
	front of the VP	rs FV and TV	1	1.3	COL	(10 M)	
5	Line AB is 75 mm long in measure 50 mm & amp;	60 mm long   mm above HP		4			
	respectively. End A is front.	of VP. Draw	/	7,		-	
	4 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1		in the second	4.5			
	quadrant. Find angle with 11	(OR)	· · ·	12	CO2	(10 M)	
6	A Hexagonal plane with a .	30mm side has	11	1.3	, ,,,,	6.35	
	its surface parallel to the 2	ne when (a) a					
	the VP. Draw it s 1 to jection	IP (b) side is					
	inclined at 45° to the HP.		·				



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## ENGINEERING GRAPHICS (23AES0302)

(CSE-B)

Time: 120 min

Date: 12-03-2025 AN

Max. Marks: 30

\*Answer ONE FULL question from each unit\* \*\*All the Questions Carry EQUAL marks\*\* O. BT CO Marks Question Unit No Level Allotted covered I Construct a regular pentagon and a hexagon, L3 1 COL (10 M)keeping one of the side horizontal and common to both the polygons. The side of the polygons is 40 mm. (OR) 2 Construct a diagonal scale of RF = 2:125 and (10 M)1 L3 COL least count of 1CM. Show the lengths of 5.99 m, 3.31 m and 2.7 decimeters on it. Construct an ellipse, with distance of the 1/3 11 CO<sub>2</sub> (10 M)focus from the directrix as 60 mm and eccentricity as 2/3. Also draw a tangent and normal to the curve at a point 35 mm from the directrix. (OR) Draw the projections of the following points 11 1.3 CO2 (10 M)on the same ground line, keeping the Projectors 25 mm apart. i) Point A, on the H.P. and 35 mm behind the V.P. ii) Point B, on the H.P. and 25 mm in front of the V.P. iii) Point C, 35mm below the H.P. and 20mm in front of the V.P. Line AB 75mm long makes 45 0 inclination 5 L3 COL (10 M)with VP while it's FV makes 55 0 End A is 10 mm above HP and 15 mm in front of VP. If line is in 1<sup>st</sup> quadrant draw it's projections and find it's inclination with HP. (OR) A Square plane with a 40mm side has its 6 П 1.3 CO<sub>2</sub> (10 M)surface parallel to and 20mm above the HP.

Draw It's Projections, when (a) a side is parallel to VP (b) a side is inclined at 30° to

VP.