		Reg. No.]	
		B.E. / B.TECH. DEGREE EXAMINATIONS. MAY 202	23		J	
		Second Semester				
		ME22252 – FUNDAMENTALS OF ENGINEERING GRAF	PHICS			
		(Electrical and Electronics Engineering)				
		(Regulation 2022)				
TIME: 1 COURSE OUTCOMES		HOUR 30 MINUTES MA STATEMENT	AX. MA	ARKS	: 50 RBT LEVEL 2	
CO 2 CO 3		Obtain orthographic projections of lines and plane surfaces and simple solids in various positions			3	
		Obtain projections of simple and hollow solids.			3	
		PART- A (2 x 15 = 30 Marks)				
			Marks	CO	RBT LEVEL	
(a)	(i)	Draw a Parabola when the distance between the directrix and the focus is 45mm. Draw a tangent and normal at a point M on the curve.	(10)	1	2	
	(ii)	Draw a line of 60mm long and divide it into 7 equal parts.	(5)	1	2	
(b)	(i)	Explain with a diagram, how a parabola is obtained while performing a conic section.	(5)	1	2	
	(ii)	Trace the locus of the free end of an inelastic string of 125mm wound on a pentagon. Draw a tangent and normal at any point on the curve.	(10)	1	2	
(a)	(i)	Mark the projections of the following points on a common reference line.	(5)	2	3	
		 i) A – 25mm above HP and 35mm in front of VP ii) B – 30mm below HP and 45mm above VP 				
	(ii)	A line CD measuring 80mm is inclined at an angle of 30° to HP and 45° to VP. The point C is 20mm above HP and 30mm in front of VP.	(10)	2	3	
		(OR)				
(b)	A re	gular pentagon plate of side 40mm is placed on one side on HP, such	(15)	2	3	

1.

2.

projections and traces.

<u>PART- B (1 x 20 = 20 Marks)</u> (Q.No.3 is compulsory)

that the surface is inclined at 45° to HP and perpendicular to VP. Draw its

RBT Marks СО LEVEL 3

Q. Code: 386761

3. Draw the hexagonal pyramid of base side 30mm and axis 45mm long that 3 (20) rests with one of its corners on HP, such that the base is inclined at an angle of 60° to HP and one side of the base is perpendicular to VP. Draw it projections.