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Reg No.:	: Name:	_
	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY THIRD SEMESTER MCA DEGREE EXAMINATION, DECEMBER 2017	
	Course Code: RLMCA387	
	<b>Course Name: COMPUTER GRAPHICS</b>	
Max. M	Tarks: 60 Duration: 3	Hours
	PART A	
	Answer all questions, each carries 3 marks.	Marks
1	Explain Midpoint circle algorithm.	(3)
2	Write a short note on Two-dimensional viewing pipeline.	(3)
3	Explain plane equation.	(3)
4	Explain vanishing point.	(3)
5	Write a short note on Interpolation and Approximation splines.	(3)
6	Explain Three dimensional rotations.	(3)
7	What is Transparency?	(3)
8	What is Phongspecular-reflection model? PART B	(3)
	Answer six questions, one full question from each module and carries6 marks. Module I	
9	Differentiate between Raster-Scan and Random-Scan Displays. OR	(6)
10	With a suitable example, explain Bresenham'sline drawing algorithm. Module II	(6)
11	Write a short note on Two-dimensional transformations. OR	(6)
12	With a suitable example, explain Cohen-Sutherland line clipping method. Module III	(6)
13	Discuss the various Boundary representation scheme for solid objectused in three dimensional graphics.	(6)
	OR	
14	Briefly explain the display surfaces generated from functional descriptions. Module IV	(6)
15	Briefly explain about Graphical user interface. OR	(6)
16	Differentiate between Parallel and Perspective projections. Module V	(6)
17	Explain the various Three dimensional transformations. <b>OR</b>	(6)
18	Explain about the curves and surfaces that allow local control over the shape of a spline curve or surface.	(6)
	Module VI	
19	Explain basic Ray-Tracing algorithm.	(6)
	OR	
20	Briefly explain the method that compares surface depth values throughout a scene for each pixel position on the projection plane.	(6)

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