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Question Paper Code

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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2023

Sixth Semester

Computer Science and Engineering

(Common to Information Technology)

CS8092 - COMPUTER GRAPHICS AND MULTIMEDIA

(Regulations 2017)

Duration: 3 Hours

PART - A (10 × 2 = 20 Marks) Answer ALL Questions

* <	D.C. Amerit Datio	K-Level, CO 2,K1,CO1
1.	Define Aspect Rauo.	2 K2 CO1
2.	Differentiate aliasing from antialiasing.	2,112,001
2	What is composite transformation?	2,K1,CO2
5.	L: 44 - different types of text clinning methods available.	2,K2,CO2
4.	List the different types of text enpping methods of the second	2,K2,CO3
5.	How will you represent a sphere in three dimensions?	2 82 603
6	Differentiate oblique and orthogonal projection.	2, 12, 100
0. 7	Give two examples of lossless compression technique.	2,K2,CO4
1.	Give two examples of resident encodification	2,K1,CO4
8.	Write down the TIFF file format specification.	2 K1 CO5
9.	Define large-capacity file system.	2,81,005
	Dian dan Crombios	2,K1,CO5

10. Write a short note on Blender Graphics.

PART - B $(5 \times 13 = 65 \text{ Marks})$

Answer ALL Questions

11.	a)	Explain RGB, YIQ and HSV color models.	15,82,001
		OR	
	b)	Illustrate the basic illumination model in detail.	13,K2,CO1
12.	a)	Explain in detail the basic two-dimensional geometric transformations.	13,K2,CO2
		OR	
	b)	Discuss in detail about window to viewport coordinate transformation.	13,K2,CO2
13.	a)	Construct the Bezier curves of order 3 and with 4 polygon vertices $A(1, 1), B(2, 3), C(4, 3)$ and $D(6, 4)$. OR	13,K3,CO3
			2 2

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create 1

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Max. Marks: 100

Marks,

	b)	(i) Explain Cohen-Sutherland line clipping with example.(ii) Summarize the notes on clipping against rectangularboundaries.	7,K2,CO3 6,K2,CO3
14.	a)	What are the two advantages of B-splines over Beizer curve? Briefly explain how curves are generated using B-spline function and properties of B-Spline curves.	_13,K2,CO4
		OR	
	b)	Compare parallel projections from perspective projections.	13,K2,CO4
15.	a)	Explain how the RAID technologies help in efficient storage and retrieval of multimedia data.	13,K2,CO5
		OR	
	b)	Discuss in detail the MPEG 4 video compression standard.	13,K2,CO5
		PART - C (1 × 15 = 15 Marks)	

16. a) Explain the types of multimedia authoring systems and list the main 15,K3,CO6 attribute, benefits and drawbacks of authoring systems.

OR

b) Illustrate about distributed multimedia systems.

15,K3,CO6