Duration: 3hrs **[Max Marks: 80]**

N.B. : (1) Question No 1 is Compulsory.
(2) Attempt any three questions out of the remaining five.
(3) All questions carry equal marks.
(4) Assume suitable data, if required and state it clearly.

1		Attempt **any FOUR**	[20]
	a	Differentiate Raster scan & random scan displays.	
	b	Explain Antialiasing techniques.	
	c	What is 2D transformation? Write 2D matrix of each one.	
	d	Explain Bezier Curve.	
	e	Differentiate Lossy Compression and Lossless Compression.	
2	a	Digitize a line from (10,12) to (15,15) on a raster screen using Bresenham's straight line algorithm.	[10]
	b	Explain Flood Fill Algorithm along with source code.	[10]
3	a	Explain Sutherland- Hodgeman– Polygon Clipping Algorithm.	[10]
	b	Explain Shannon-Fano Algorithm for Data Compression in detail.	[10]
4	a	Explain 3D Transformations.	[10]
	b	What are the types of Video signals? Explain Video file format. Also explain Audio data format and structure.	[10]
5	a	Explain in detail about B-Spline curves and surfaces.	[10]
	b	Explain Cohen- Sutherland Line clipping algorithm.	[10]
6	a	What are the applications of Multimedia?	[10]
	b	Explain Weiler-Atherton Polygon Clipping Algorithm.	[10]

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