Aryan College

Computer Graphics

Unit 1

1.	What is use of light pen?	[2017]
2.	Write down any two output devices names.	[2017]
3.	Explain the working of digiter.	2017]
4.	Exaplain working process of laser printer.	[2017]
5.	Can you give some basic features of computer graphics?	[2016]
6.	Explain the following	[2016]
	a) Data Glove	[2016,2014]
	b) Image Scanner	
7.	Write 2 applications of computer graphics.	[2015]
8.	What the names of 3 interactive devices	[2015]
9.	What is the difference between Trackball and Spaceball?	[2015]
10.	What is the difference between Impact and Non Impact Printer?	[2015,2013]
11.	Explain Input and Output devices.	[2015]
12.	What is non-impact printers?	[2014]
13.	What is Inkjet printers?	[2014]
14.	What is light pens?	[2014]
15.	What is graphic tablets?	[2014]
16.	Define	
	a) JoySticks	
	b) Touch Panel	[2014]
17.	Write two applications of computer graphics.	[2014]
18.	Give the name of input and output devices.	[2013]
19.	What is difference between Inkjet Printers and Laser Printer?	[2014]
20.	Give the name of input and output devices.	[2013]
21.	What is computer graphics?	[2013]
22.	What is digitize?	[2013]
23.	What is the application of Computer Graphics.	[2013]
24.	Explain the dot matrix and laser printer in detail.	[2013]
25.	Define :	[2013]
	a) Flatbet Plotter	
	b) Drum Plotter	

Unit 2

1.	What is pixel ?	[2017,2013]
2.	What do you mean by dpi?	[2017]
3.	What is full form LED?	[2017]
4.	Differentiate between raster scan and random scan displays.	[2017]
5.	Explain colour CRT monitor with their working process.	[2017]
	OR	
	Explain the working process of LCD flat panel display.	[2017]
6.	What does refreshing of the screen mean?	[2016]
7.	What is persistence?	[2016,2013]
8.	What is resolution?	[2016,2013]
9.	What is interdot distance?	[2016]
10.	What does refreshing of the screen mean?	[2016]
11.	What is rasterization?	[2016]
12.	What is filament?	[2016]
13.	What is bitmap?	[2016]
14.	What do you mean by emissive and non-emissive displays?	[2016]
15.	What are the advantages of electrostatic plotters?	[2016]
16.	Write short notes on graphics software standard.	[2016]
17.	Describe the 3-D view devices.	[2016,2014,2013]
18.	Explain virtual reality.	[2016,2013]
	OR	
	Explain the Random Scan System.	[2016]
19.	What do you mean by the term "Frame buffer".	[2015]
20.	What is CRT?	[2015]
21.	Define the terms "LCD" and "LED".	[2015]
22.	Write short notes on the following:	[2015]
	a. DVST	[2015,2014]
	b. Flat Panel Display	
23.	What is difference between Raster and Random scan system?	[2015,2013]
24.	Explain Raster Scan System.	[2014]
25.	Explain CRT in detail.	[2014]
26.	What is pixmap?	[2013]
27.	What is aspect ratio?	[2013]
28.	What is CRT?	[2013]

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Unit 3

1.	What will be slope of a line lying two points (4,2) and (9,5)?	[2017]
2.	If a line connecting (4,2) &(8,4) is draw using DDA algo then find x increment value.	[2017]
3.	Write down the equation of ellipse.	[2017]
4.	What is referesh rate?	[2017,2015]
5.	Explain the DDA line algorithm with diagram.	[2017]

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	Explain Bresenham's circle algorithm with diagram.	[2017]
6.	What is meant by scan code?	[2016]
7.	How is scan conversion of an ellipse different from a circle?	[2016]

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	Explain the Bresenham's algorithms.	[2016,2013]
8.	What is scaling?	[2015]
9.	What is clipping?	[2015,2013]
10.	Write a syntax for creating a line.	[2015]
11.	Write function for creating a circle.	[2015]
12.	Define the term scan conversion.	[2015]
13.	Explain area filling techniques.	[2015,2013]

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	Write steps for creating a mid pint circle algorithm	[2015]
14.	What do you mean by scan conversion?	[2014]
15.	What do you mean by line clipping?	[2014]
16.	Explain DDA algorithm in detail and write down the difference between DDA	
17.	and Bresenham's algorithm.	[2014]
18.	Write the equation of :	[2013]
	a. Line	
	b. Circle	
	c. Elipse	
19.	Explain the various area filling technique in detail.	[2013]

Unit 4

1.	Write down the translation transformation matrix representation.	[2017]
2.	Explain rotation of a point along a given pivot point.	[2017]

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	Explain scaling of an object with given fixed point.	[2017]
3.	Write a note on window-to-view port devices.	[2016]
4.	Describe the cartesian of Homogenous Co-ordinate system.	[2016]
5.	Explain all 2D geomatric transformations.	[2015]

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	Explain 2D viewing transformation.	[2015]
6.	What is Transformation?	[2014]
7.	What is Translation?	[2014]
8.	What is general equation of Resolution in 2D?	[2014]
9.	Write short on:	[2014]
	a. Scaling	
	b. Shearing	
10.	Explain polygon clipping?	[2014]
11.	What do you understand by Homogenous coordinate system and why we are used Homogenous System?	[2014]
12.	Write short note on:	[2013]
	a. Translation	
	b. Scaling.	

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	Write short notes on	[2013]
	c. Reflection	
	d. Shearing	