

SIES COLLEGE OF COMMERCE AND ECONOMICS, SION EAST

SYBScIT SEMESTER IV December 2020 Sample Questions

Computer Graphics and Animation

Sr no.	Questions	Option 1	Option 2	Option 3	Option 4
1	Which devices provides positional information to the graphics system ?	Input devices	output device	pointing device	input and output device
2	The number of pixels stored in the frame buffer of a graphics system is known as	resolution	depth	ratio	size
3	The devices which converts the electrical energy into light is called	Liquid-crystal displays	Non-emitters	Plasma panels	Emitters
4	The process of digitizing a given picture definition into a set of pixel-intensity for storage in the frame buffer is called	Rasterization	Encoding	Scan conversion	True color system
5	Potentiometers mounted at the base of the joystick measures	The amount of movement	The direction	Position	Resolution
6	In a rotation, by how much angle is the object rotated?	45 degree	90 degree	180 degree	360 degree

7	In 2D-translation, a point (x, y) can move to the new position (x', y') by using the equation	$x'=x+dx$ and $y'=y+dx$	$x'=x+dx$ and $y'=y+dy$	$X'=x+dy$ and $Y'=y+dx$	$X'=x-dx$ and $y'=y-dy$
8	The original coordinates of the point in polar coordinates are	$X'=r \cos (\Phi +\theta)$ and $Y'=r \cos (\Phi +\theta)$	$X'=r \cos (\Phi +\theta)$ and $Y'=r \sin (\Phi +\theta)$	$X'=r \cos (\Phi -\theta)$ and $Y'=r \cos (\Phi -\theta)$	$X'=r \cos (\Phi +\theta)$ and $Y'=r \sin (\Phi -\theta)$
9	The transformation that is used to alter the size of an object is	scaling	rotation	translation	reflection
10	If the value of $s_x=1$ and $s_y=1$ then	Reduce the size of object	Distort the picture	Produce an enlargement	No change in the size of an object
11	Which of the following co-ordinates are NOT used in 2d viewing transformation?	modelling co-ordinates	viewing co-ordinates	vector co-ordinates	device co-ordinates
12	The process of elimination of parts of a scene outside a window or a viewport is called	cutting	plucking	clipping	editing
13	It is a method in image processing of contrast adjustment using the image's histogram.	Histogram processing	Histogram equalization	Historical equalization	Historical Processing
14	Which filter(s) used to find the brightest point in the image?	Median filter	Max filter	Mean filter	equi filter
15	What is a chromatic number?	The maximum number of colors required for proper edge coloring of graph	The maximum number of colors required for proper vertex coloring of graph	The minimum number of colors required for proper vertex coloring of graph	The minimum number of colors required for proper edge coloring of graph

16	_____ is a flexible strip that is used to produce smooth curve using a set of point	Sp line	Scan-line method	Depth-sorting method	breadth sorting method
17	The algorithm of hidden surface are	Object-space method	image-space method	surface space method	object and image space method
18	which is not a type of hidden surface removal algorithm a	Depth comparison, Z-buffer, back-face removal	Scan line algorithm, priority algorithm	BSP method, area subdivision method	Complex algorithm
19	The painter algorithm are based on the property of	Polygon	Frame buffer	Depth buffer	breadth buffer
20	Many online animation tools are used to create animation in the form of	JPEG image	PDF image	GIF image	JPG image
21	The main property of _____ is that their shape is irregular	Fractals	Quad-tree	Rendering	processing
22	Algorithm that determine which parts of the shapes are to be rendered in 3 D coordinates	Image Space Method	Object Space Method	Fixed Space Method	Variable Space Method
23	Animation in which objects are animated by procedure or a rule	Keyframing	Procedural	Behavioural	Designing
24	A technique used to approximate halftones without reducing spatial resolution is known as _____.	Halftoning	Dithering	Error diffusion	thresholding
25	The devision of the computer screen into row and columns that define the no. of pixels to display a picture is called :	persistence	resolution	Encapsulated post scrip	image