

Program: BE INFORMATION TECHNOLOGY Engineering
Curriculum Scheme: Revised 2016
Examination: Third Year Semester V
Course Code: ITDLO5015 and Course Name: Computer Graphics & Virtual Reality
Time: 1 hour

Max. Marks: 50

Question No.	Question Statement	Options			
		A:	B:	C:	D:
1	Which neighbouring pixels are considered in 4-connected method?	Left,Right,Diagonal Left,Diagonal Right	Top,Bottom,Diagonal top,Diagonal Bottom	Left,Bottom	Left, Right, Top, Bottom
2	In perspective projection, the lines of projection converge at a single point called	Center of projection	Pivot point	Centroid	Median point
3	Weiler Atherton algorithm is used for.....	Polygon filling	Line clipping	Polygon clipping	Text clipping
4	Which is a geometric shape that can be split into parts based on the self-similarity property?	Cubic bezier curve	B-spline curve	Fractals	Bezier curve
5	Moving a point or series of points from initial position to final position is called as.....	Warping	Morphing	Tweening	Dissolve
6	If logical AND operation of region codes of both endpoints is nonzero then....	Line is completely inside the window	Line is completely outside the window	Line is partially inside the window	Line is already clipped
7	High resolution means ___ pixels per inch	less	average	more	reduced
8	What is the effect of Shear transformation?	Doubles size of an object	Distorted shape of an object	Changes angle of an object	Changes location of an object
9	The ___ is a multiprocessor desktop computing integrating new technologies into a workstation package	Sun star system	Sun solar system	Solar Blade system	Sun Blade 1000 System
10	The ___ is responsible for generating the image that a viewer sees	viewer engine	rendering engine	graphics engine	mathematical engine
11	Consider A (x1 = 10, y1 = 12) and B (x2 = 20, y2 = 20). What will be the value of Xincrement in DDA algorithm?	1	0.8	0	1.5
12	A type of VR environment in which subjects are visually isolated from the real environment.	immersive	semi-immersive	non-immersive	augmented
13	A scene graph does not contain	branch node	parent node	child node	data objects
14	Which parametrs are needed by boundary fill algorithm?	x,y coordinates	x,y coordinates, fill color and boundary color	x,y coordinates, fill color	x,y coordinates, boundary color
15	What is the difference between augmented reality and virtual reality?	There is no difference	Augmented reality blends virtual world and reality and virtual world is invented.	Virtual reality is only through wearable technology and augment reality is only through apps	Augmented reality is an educational tool and virtual reality is for leisure.
16	When the direction of projection makes an angle of $\arctan(2) = 63.4$ degree with the view plane, the resulting view is called a _____ projection	Parallel	Perspective	Cavalier	Cabinet
17	Behavioral modeling does not include	emotions	actions	voice	behavioral rules
18	How inside-outside test determines if a point is outside a polygon?	If there are more number of intersections	If there are even number of intersections	If there are less number of intersections	If there are odd number of intersections
19	_____ is a mediated environment which creates the sensation in a user of being present in a (physical) surrounding	VR	AR	GUI	WWW
20	CAM is an acronym used for	Computer assisted manufacturing	Computer added manufacturing	Computer aided manufacturing	Computer advanced manufacturing
21	Which operation is used to test lines for clipping in Cohen Sutherland line clipping?	logical XOR	logical OR	logical AND	logical NOT
22	In ___ VR a simulated world runs on not one but many computer systems	multi-layer	centered	distributed	centralized
23	The ___ controls how user navigates and interacts with the virtual environment	user interface	User activity	user response	user action
24	How random scan monitors draw a picture?	may lines at a time	one line at a time	one pixel at a time	many pixels ata a time
25	If frames are displayed on screen fast enough, we get an impression of.....	Signals	Motion	Packets	Bits