

Program: BE Information Technology Engineering

Curriculum Scheme: CBSGS

Examination: Third Year Semester V

Course Code: TEITC501 and Course Name: Computer Graphics and Virtual Reality

Time: 1hour

Max. Marks: 50

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Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Different types of Graphic scan are
Option A:	Vector and Raster
Option B:	Scalar and raster
Option C:	Vector and Scalar
Option D:	Random and Vector
Q2.	In the Midpoint Circle Algorithm, what is the coordinates of the Midpoint pixel?
Option A:	$(X_k + \frac{1}{2}, Y_{k+1})$
Option B:	$(X_{k+1}, Y_k + \frac{1}{2})$
Option C:	$(X_k, Y_k + \frac{1}{2})$
Option D:	$(X_k + \frac{1}{2}, Y_k)$
Q3.	An accurate and efficient raster line-generating algorithm is
Option A:	DDA algorithm
Option B:	Mid-point algorithm
Option C:	Parallel line algorithm
Option D:	Bresenham's line algorithm
Q4.	In Beizer Curve, which control points lie on the curve of the polygon
Option A:	only the first control point
Option B:	only the last control point
Option C:	only the first and last control points
Option D:	all the control points
Q5.	A polygon in which the line segment joining any two points within the polygon lies completely inside the polygon, is called
Option A:	Convex
Option B:	Concave
Option C:	Complete
Option D:	closed
Q6.	Odd and even and Non - zero winding are types of
Option A:	Scan line polygon fill algorithm

Option B:	Inside outside test
Option C:	Boundary fill algorithm
Option D:	Flood fill algorithm
Q7.	The 2D transformation that is used to alter the size of an object is
Option A:	Translation
Option B:	Rotation
Option C:	Scaling
Option D:	Shearing
Q8.	Shearing is also termed as
Option A:	Selecting
Option B:	Sorting
Option C:	Scaling
Option D:	Skewing
Q9.	Which type of clipping is used to clip character strings?
Option A:	line clipping
Option B:	text clipping
Option C:	word clipping
Option D:	sentence clipping
Q10.	Sutherland-Hodgeman clipping is an example of which algorithm
Option A:	curve clipping
Option B:	Line clipping
Option C:	text clipping
Option D:	polygon clipping
Q11.	Reflection about the line $y=0$, the axis, is accomplished with the transformation matrix with how many elements as "0"
Option A:	8
Option B:	1
Option C:	6
Option D:	9
Q12.	The types of parallel projection are
Option A:	Orthographic projection and quadric projection
Option B:	Orthographic projection and oblique projection
Option C:	Oblique projection and quadric projection
Option D:	None of these
Q13.	Which transformation distorts the shape of an object such that the transformed shape appears as if the object were composed of internal layers that had been caused to slide over each other?

Option A:	Scaling up
Option B:	Shearing
Option C:	Rotation
Option D:	Scaling down
Q14.	It refers to simulated motion pictures showing movement of drawn objects.
Option A:	Animation
Option B:	Motion
Option C:	VR
Option D:	SMD
Q15.	Which of the following is a technique to blend two or more images to form a new image
Option A:	Warping
Option B:	Modeling
Option C:	Morphing
Option D:	Animating
Q16.	HMD stands for?
Option A:	Head Mounted Display
Option B:	Head Masked Display
Option C:	Head Made Display
Option D:	Head Mounted Detection
Q17.	A term for Illusion of immersion by projecting stereo images on the walls and floor of a room.
Option A:	CAVE
Option B:	BOOM
Option C:	GUI
Option D:	HMD
Q18.	It is a mediated environment which creates the sensation in a user of being present in a (physical) surrounding.
Option A:	WWW
Option B:	VR
Option C:	HMD
Option D:	GUI
Q19.	A type of VR environment in which subjects are visually isolated from the real environment.
Option A:	Immersive
Option B:	Semi immersive
Option C:	Non immersive
Option D:	Augmented
Q20.	What does Open GLSL stand for?

Option A:	Graphical Library of Shade Languages
Option B:	Geographic Land and Survey Library
Option C:	Graphics Library Shader Language
Option D:	Graphical Language and Shading Library
Q21.	When animating, OpenGL provides:
Option A:	A complete suite of tools and downloadable applications for making classic 2D and 3D animation right out of the box
Option B:	FBOs, VBOs, VAOs and integer-related functions such as glFrameNumber and glMovieType
Option C:	Accumulation buffers, frame-buffer objects, VBOs, depth and stencil buffers, blending modes, and other types of buffers that allow a developer to achieve the desired effect
Option D:	No way to draw pixels on the screen
Q22.	Which function call sets up the size of the output area?
Option A:	glViewport()
Option B:	gluPerspective()
Option C:	None of These
Option D:	glDisplayfunc()
Q23.	With Java 3D, each Shape3D object should call its method _____ to reference one and only one Geometry object.
Option A:	setBgcolor()
Option B:	setColor()
Option C:	setCoordinate()
Option D:	setGeometry()
Q24.	Pressure-sensitive joysticks are also called
Option A:	Non movable stick
Option B:	Joystick
Option C:	Isometric joystick
Option D:	None of these
Q25.	Acronym for VRML:
Option A:	Virtual Reality Modeling Level
Option B:	Virtual Reality Modulation Language
Option C:	Virtual Rate Modeling Language
Option D:	Virtual Reality Modeling Language