

BCA
(SEM.IV) BCA-4001:
COMPUTER GRAPHICS & ANIMATION

REVISED QUESTIONS ANSWERS

EXAMINATION PAPER OF (2022-23)	
Questions	Answers
1. The image can be transmitted to the display point by : (A) Line (B) Points (C) Segments (D) All of the above	(B) Points
2. The basic interactive picture construction techniques are : (A) Positioning and pointing constraints. (B) Grid, gravity field, rubber band method (C) Sketching, dragging, linking and pointing (D) All of the above	(d) All of the above
5. Which algorithm is faster method for calculating pixel position? (A) Bresenham's line algorithm. (B) Parallel line algorithm (C) Midpoint algorithm (D) DDA line algorithm	(d) DDA line algorithm
8. In Bresenham's line algorithm, if the distance $d_1 < d_2$ then decision parameter P_k is : (A) Positive (B) Equal (C) Negative (D) Both (A) and (C)	(C) Negative
15. The second girlin DVST is called as_____. (A) Phosphor (B) Storage grid (C) Collector (D) None of the above	(C) Collector

23. Positive values for the rotation angle define : (A) Counterclockwise rotations about the endpoints (B) Counterclockwise translations about the pivot points (C) Counterclockwise rotations about the pivot points (D) Clockwise rotations about the pivot points	(C) Counterclockwise rotations about the pivot points
25. For reducing the size of the object we set both scale factor : (A) Less than 0 (B) Greater than 1 (C) Equals to 1 (D) In between 0 and 1	(D) In between 0 and 1
27. If two curves segments join together the curve has : (A) G 1 continuity (B) G 0 continuity (C) G 2 continuity (D) G 3 continuity	(B) G 0 continuity
29. Which of the following is not a synthetic entity? (A) Hyperbola (B) Bezier curve (C) B-spline curve (D) Cubic curve	(A) Hyperbola
39. How many step process for creating a 3D animation are required? (A) 2 (B) 3 (C) 4 (D) 5	(B) 3 (The process of creating 3D animation can be sequentially divided into three phases: modelling ,layout and animation, rendering)
40. Which file creates a perfect reproduction of the original images? (A) Shockwave (B) Nx view (C) GIF (D) JPG	(D) JPG

43. How many attributes control the characteristics of sound? (A) 5 (B) 4 (C) 3 (D) 2	(A) 5 (The five main characteristics that control sound are: Wavelength, Amplitude, Frequency, Time period Velocity.)
65. The process of digitizing a given picture definition into a set of pixel intensity for storage in the frame buffer called : (A) Rasterization (B) Encoding (C) Scan conversion (D) True color system	(C) Scan conversion
79. An ellipse can also be rotated about its center coordinates by rotating : (A) End points (B) Major and minor axes (C) Only (A) (D) None of the above	(B) Major and minor axes
96. Cubic spline are : (A) Simple to corporate (B) Provide continuity to curves (C) Both (A) and (B) (D) None of the above	(C) Both (A) and (B)
99. By which more complex objects can be constructed? (A) Quadratic surfaces (B) Bezier curve (C) Composite transformation (D) None of the above	(A) Quadratic surfaces
MODEL PAPER – I	
8. In Bresenham's algorithm error term is initialized to? (a) 0 (b) 1 (c) -1/2 (d) None of the above	(a) 0
34. _____ are used to measure dial rotations. (a) Potentiometers (b) Voltmeter (c) Parameter (d) Only A	(d) Only A

40. _____ is responsible for producing the picture from the detailed descriptions. (a) Graphical System (b) Application model (c) Conceptual model (d) Application program	(a) Graphical System
84. If we want to display constant-length dashes, then we need to do the following. (a) We need to adjust the number of pixels plotted in each dash (b) We need to adjust the number of dots (c) We must use line-type functions (d) Neither a nor c	(a) We need to adjust the number of pixels plotted in each dash
MODEL PAPER – II	
9. In a graphical system, an array of pixels in the picture are stored in which of the following locations? (a) Frame Buffer (b) Processor (c) Memory (d) All of the mentioned	(a) Frame Buffer
37. How is the line path on the polygon area for a 45% line? (a) Vertical (b) Horizontal (c) Centered (d) None of the	(c) Centered
MODEL PAPER – III	
36. Which method of clipping is used against convex polygon? (a) Lg N clipping algorithm (b) Skala (c) NLN clipping (d) Sutherland clipping	(d) Sutherland clipping
MODEL PAPER – IV	
26. When system delivers data accurately then it is called (a) accuracy. (b) delivery. (c) jitter. (d) timelessness	(a) accuracy.

47. Pressure-sensitive joysticks are also called_____. (a) Non movable stick (b) Joystick (c) Isometric joystick (d) None of the mentioned	(c) Isometric joystick
53. Which of the following are the features of Computer Graphics? (a) Creation and deletion of images by computer only (b) Deletion and manipulation of graphical by computer (c) Creation and manipulation of graphics(artificial image) by computer (d) Creation of artificial images by computer only	(c) Creation and manipulation of graphics(artificial image) by computer
68. Which of the following is not a property of a surface? (a) Area (b) Volume (c) Curvature (d) Torsion	(b) Volume
70. Which of the following is not a type of quadric surface? (a) Sphere (b) Ellipsoid (c) Paraboloid (d) Hyperboloid	(a) Sphere
77. Rigging is _____. (a) modeling of a character face (b) a technique of cell animation (c) a technique of video editing (d) none of the above	(d) none of the above
92. Cut out animation: (a) a technique in 3d (b) a technique in 2d (c) cell animation (d) using properties	(b) a technique in 2d
95. Text Animation: (a) Using text to convey a message (b) Animated font design (c) Animated calligraphy (d) None of the above	(b) Animated font design

96. Motion capture : (a) recording movements of objects (b) video shooting of an event (c) a motion picture (d) none of the above	(a) recording movements of objects
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