COMPUTER GRAPHICS

BCA

III Sem

Multiple choice questions

- Smallest size object that can be displayed on a monitor is called
 a) Picture element b) Point c)Dot Pitch d) aspect ratio
 Ans: Picture element
- 2. Each screen point is referred to asa) Resolution b)Pixel c)Persistence d)Dot PitchAns: Pixel
- 3. On a monochromatic monitor, the frame buffer is known asa) Display fileb) Pixmapc) Bitmapd) Refresh bufferAns: Bitmap
- 4. On a color monitor, the refresh buffer is also called
 a)Frame buffer b)Pixmap c)Bitmap d)Display file
 Ans: Pixmap
- 5. refers to pixel spacing.a)Pixmap b)Resolution c)Pixel depth d)PersistenceAns: Resolution
- 6. The distance from one pixel to the next pixel is calleda)Resolution b)Dot Pitch c)Pixmap d)ppiAns: Resolution
- 7. The maximum number of points that can be displayed without overlap on a CRT a)Aspect Ratio b)Resolution c)Brightness d)Pixel
 Ans: Resolution
- 8.is the number of points per centimeter that can be plotted horizontally and vertically.
 a)Aspect Ratio
 b)Pixel Depth
 c)Resolution
 d)Dot Pitch
 Ans: Resolution
- 9.is the ratio of horizontal points to vertical points necessary to produce equal length lines in both direction.
 a)Dot Pitch b)Resolution c)Aspect Ratio d) Height-Width Ratio
 Ans: Aspect Ratio

10. Identify the odd onea)Frame BufferAns: Pixmap		llowing c)Display program	d)Refresh Buffe	r
 11. The shortest distance a)Resolution Ans: Dot Pitch 12. The standard aspect a) 6:5 b) 4:3 Ans: 4:3 	b)Dot Pitch	c)Pixel Depth d)ppi	or is called	
13. In CRT, the electrona) Accelerating anodAns: Control grid		justed using trol grid c) Elec	etron gun	d) Focusing anode
e 1	•	d by varying the voltage ins c)Control grid		
15. Lower persistence ph a) AnimationAns: Animation	·		ject d) All o	f these
16. Lower persistence ph a) Lower Ans: Higher			e of these	
17 Higher persistence p a) Lower Ans: Lower	bhosphorus neec b)Higher			
18. Higher persistence pl a) AnimationAns: High Complex object	b) Simple objec		ex object	d) All of these
•	ng the intensity b)Font cache	information of an image c)Picture definition	is called d)Video control	
• •	tion of an image b)Picture defini	e is called tion c)Display list	d)Brightness	
17. The purpose of refr	reshing a CRT i	S		

a)To avoid flickering b)To maintain steady picture c)To avoid fading of pixels d)All of the above **Ans:** All of the above 18. The fly-back of electron beams from one scanline to next is known as a)Vertical Retrace b)Horizontal Retrace c)Raster scanning d)Refreshing **Ans:** Horizontal Retrace 19. The return of electron beam to top left corner of the screen after one frame is called b)Vertical Fly-back a)Horizontal fly-back c)Scanning d)None of the above **Ans:** Vertical Fly-back 20. In raster scan display, the frame buffer holds a)Line drawing commands b)Scanning instructions c)Image Resolution d) Intensity information Ans: Intensity information 21. In random scan display, the frame buffer holds a)Line drawing commands b)Scanning instructions c)Image Resolution d) Intensity information Ans: Line drawing commands 22. Identify the odd one out from the following a)Vector display c)Calligraphic display b)Raster scan display d)Stroke-writing display Ans: Raster scan display 22. Interlaced refresh procedure is allowed in a) LCD b)DVST c)Raster scan display d)Random scan display Ans: Raster scan display 23. Vector display is well suited for b) Line drawing applications a) Animation c) Cartoons d) All of the above **Ans:** Line drawing applications 24. Beam penetration method is usually used in a)LCD b)Raster Scan display c) Random scan display d)DVST Ans: Random scan display 25. Shadow mask method is usually used in b)Raster Scan display c) Random scan display a)LCD d)DVST Ans : Raster Scan display 26. Identify the colors produced in beam penetration method. a) Red, Green, Blue, White b)Red, Orange, Yellow, Green c)Red, Green, Blue d) Green, Red, White, Orange Ans : Red, Orange, Yellow, Green

27. An RGB color system with 24 bits os storage per pixel is known as a) Color CRT b)True-color system c)RGB monitor d)Color- Depth Ans: True-color system

28. Identify the features of Vector display
a)High resolution, Jagged lines, Lack in color depth
b)Smooth lines, Poor resolution, Black & White
c)High resolution, Lack in color depth, Smooth lines
d)Inexpensive, monochromatic, smooth lines
Ans: High resolution, Jagged lines, Lack in color depth

29. Identify different type of computer graphicsa) Monochrome and Colorc)Vector an Rasterd) Monitors and Hardcopy devices

Ans: Vector an Raster

30. DVST stands for

a)Digital View Storing Table	b)Direct Visual Storage Tube
c)Direct View Storage Tube	c)Digital View Storage Tube
Ans: Direct View Storage Tube	

31. Refreshing is not needed in DVST because of the presence ofa) Primary gunb) Flood gunc) Focusing anoded)Control gridAns: Flood gun

32. In DVST, the electron beam from primary electron gun strikes ona) Phosphor screen b) Collector meshc)Storage mesh d) Flood gunAns: Storage mesh

33. The purpose of flood gun in DVST is
a) To store the picture pattern
b) To slow down the flood electrons
c) To enable color pixels
d) To focus the electron beam

Ans: To slow down the flood electrons
34. Identify the features of DVST from the following.

a) Monochromatic, Flicker free, Low resolution b)Monochromatic, Flicker free

c) Color screens, Refresh monitors, High resolution d)Expensive, Low resolution

Ans: Monochromatic, Flicker free

35. Video devices with reduced volume, weight and power consumption are collectively known as

a) Light weight monitors b)Flat-panel displays c)CRT d) Portable display Ans: Flat panel displays

36. Pick out the odd one out

a) LED b)LCD c) Gas Discharge tube d) Plasma Panel **Ans:** LCD

37. Match the following Part A Part B i) Polarizer A. Plasma panel B. DVST ii) Zinc sulfide C. LCD iii) Dielectric mesh D. Thin film electroluminescent iv)Neon gas a) A-ii, B-iv, C-i, D-iii b) A-ii, B-iii, C-iv, D-i c) A-iv, B-iii, C-i, D-ii d) A-i ,B-iv, C-ii, D-iii Ans: A-iv, B-iii, C-i, D-ii 38. is responsible for accessing the frame buffer to refresh the screen. b) Video controller c) CPU d) Monitor a) Graphics package Ans: Video controller 39. Digitizing a picture definition into a set of intensity values is known as a) Digitization b) Scan conversion c)Refreshing d) Scanning Ans: Scan conversion 40. will free the CPU from graphics chores. a) Display processor b) Monitor c) ALU d)Video controller **Ans:** Display processor 41. Write an example for non-emissive displays b)LCD c) Gas Discharge tube d) Plasma Panel a) LED Ans: LCD 42. Identify impact printer from the following b)Inkjet printer c)Electrostatic printer d) Dot-matrix printer a) Drum Plotter **Ans:** Dot-matrix printer 45. Write an example for non-impact printer b) Electrostatic printer c) Laser printer a) Drum plotter d) All of the above

Ans: All of the above

46. Identify the odd one out.a) Mouse b) Keyboard c) Trackball d) Space ballAns: Keyboard

47. GIF stands for

a) Global Image Format b) Graphics Interchange Format

c) Graphics Image Format d) None of the above

Ans: Graphics Interchange Format

48. The simply reads each successive byte of data from the frame buffer.a) Digital Controllerb) Data Controllerc) Display Controllerd) All of above

Ans: Display Controller

49. The refresh rate below which a picture flicker isa) 25b) 30c) 35d) 60Ans: 25

50. used to regulate the flow of elections in CRT ?a) Electron gunb) Focusing anodec) Control gridd) All of the above

51. The technique used to summarize the financial, statistical, mathematical, scientific and economic data is ?

a) Computer Art	b) Image processing	c) Presentation Graphics	d)None of the above
Ans: Presentation Gr	aphics		

52. Graphics and image processing technique used to produce a transformation of one object into another is called

a) Animation b) Morphing c) Half toning d) None of the above Ans: Animation

53. The amount of light emitted by the phosphor coating depends on the?

- a) Number of electrons striking the screen
- b) Speed of electrons striking the screen
- c) Distance from the cathode to the screen

d)None of above

Ans: Number of electrons striking the screen

54. Gray scale is used in

- a) A Monitor that have color capability
- b) A Monitor that have no color capability
- c) Random scan display
- d) Raster scan display

Ans: A Monitor that have no color capability

55. A wireless mouse works on

a) Infra blue radiation b) Infra Red radiation c) X-rays d) UV rays Ans: Infrared radiation 56. Vector graphics is composed of a. Pixels b. Paths c. Palette` d. None of these Ans: Paths 57. Raster graphics are composed of **Pixels** b. Paths None of these a. с. Palette d. Ans: Pixels 58. EPS image file format is used for a) Vector graphics b) Bitmap c) Both a & b d) None of these Ans: Both a & b 59. TIFF (tagged image file format)are used for Vector graphics Both a & b d. None of these a. b. Bitmap с. Ans: Bitmap 60. Two dimensional color model are RGB and CMKY RBG and CYMK c. RGB and CMYK d. b. None a. Ans: RGB and CMYK 61. RGB model are used for Computer display Painting d. None of these b. Printing c. a. Ans: Computer display 62. CMYK model are used for a. Computer display b. Printing c. Painting d. None of these Ans: Printing 63. The intersection of three primary RGB color produces White color Black color b. Magenta color Blue color a. c. d. Ans: White color 64. The intersection of primary CMYK color produces White color b. Black color Cyan color Magenta color a. c. d. Ans: Black color 65. Random scan systems are designed for a. Line drawing application b. Pixel drawing application c. Color drawing application d. None of these Ans: Line drawing application 66. A major disadvantage of DVST in interactive computer graphics is a) Ability to selectively erase part of an image b) Inability to selectively erase part of image from screen

c) Inability to produce bright picture

d) None Ans: Inability to selectively erase part of image from screen

67. Which of the following allow for 8 mirror images? a) Parabola b)Ellipse c)Hyperbola d) Circle Ans: Circle 68. The simplest output primitive is a) Straight line b) Straight line segment c) Point d)Circle Ans: Point 69. A bitmap is bit(s) per pixels. a) 0 b)1 c)2 d)4 Ans: 1 70. The intensity of a grayscale pixel is expressed within a given range between a minimum and a maximum a) 1 and 2 b) 2 and 1 c) 0 and 1 d)0 and 2 Ans: 0 and 1 71. Each pixel has _____ _basic color components None of these Two or three b. One or two Three or four a. c. d. Ans: Three or four 72. The quality of an image depend on a. No. of pixel used by image b. No. of line used by image c. No. of resolution used by image d. None Ans: No. of pixel used by image 73. The basic geometric structures that describes a scene on display is called d) Curves a) Attributes b) Output primitive c) Lines Ans: Output primitive 74. controls the basic display properties of output primitives. a) Attribute parameter b) setpixel c) getpixel d) None of the above Ans: Attribute parameter 75. To set line width attributes in a PHIGS package, function is used. a) setLineThickness(lw) b)setLineWidth(lw) c) setLineWidthScaleFactor(lw) d)setPolylineWidth(lw) Ans: setLineWidthScaleFactor(lw) 76. Identify the values for fill-style parameter from the following a) Hollow b)Hatch c) Pattern d)All of the above Ans: All of the above 77. function is used to set the basic fill style.

a) setFillStyle(fs) b) setFillStyleIndex(fs) c) setInteriorStyle(fs) d)FillType(ft) Ans: setInteriorStyle(fs)

78.is defined as the distance between the baseline and cap line of the character body.a) Character Size b) Character Height c) Character Width d)Character LengthAns: Character Height

80.function is used to change the size of a character without changing the height:width ratio. a)setTextSize(ts) b)setCharacterHeight(ch) c)setCharacterSize(cs) d)setTextHeight(th) Ans: setCharacterHeight(ch)

81. will define a group of attribute values of each primitive to be used on a monitora) Primitive table b)Bundle table c) Attribute table d) None of the aboveAns: None of the above

82. function is used to set how text is to be positioned with respect to the start coordinates a) setTextAlignment(h,v) b)setTextPrecision(tp) c)setTextPosition(h,v) d)setText(ts) Ans: setTextAlignment(h,v)

83. is used to check the current status of each attributes

a) setpixel	b)getpixel	c)inquiry function	d)status function
Ans: Inquiry function			

84. The basic transformations includea) Translation b)Rotation c)Scaling d) All of the aboveAns: All of the above

85. The transformation in which an object is moved in a minimum distance path from one position to another is called

a) Rotation b) Replacement c) Translation d) Scaling

Ans: Translation

86. The translation distances (dx, dy) is called as

a) Translation vectorb) Shift vectorc) Both a and bd) Neither a nor bAns: Both a and b

87. The two-dimensional translation equation in the matrix form is

a) P'=P+T
b) P'=P-T
c) P'=P*T
d) P'=p

88. The transformation in which an object is moved from one position to another in circular path around a specified pivot point is called

a) Rotation	b) Shearing	c) Translation	d) Scaling
Ans: Rotation			

89. The transformation in which the dimension of an object are changed relative to a specified fixed point is called

a) Rotation b) Reflection c) Translation d) Scaling Ans: Scaling

90. The transformation that produces a parallel mirror image of an object are calleda) Rotationb) Reflectionc) Translationd) ScalingAns: Reflection

91. If an object is rotated through an angle A in clockwise direction, the rotation matrix R=

a) cos A	sin A	b) cos A	-sin A	c) sin A	cos A d) None
-sin A	cos A	sin A	cos A	cos A	sin A
Ans: cos A	sin A				
-sin A	$\cos A$				

92. If a point (x,y) is reflected about an axis which is normal to the XY plane and passing through the origin, the reflected point (X,Y) is:-

a) (x,-y) b) (-x,y) c) (-x,-y) d) (y,x)Ans: (-x,-y)

93. Reflection of a point about x-axis, followed by a counter-clockwise rotation of 900, is equivalent to reflection about the line ?

a) x=-y b) x=0 c)x=y d) x+y=1Ans: x=y

94. A circle, if scaled only in one direction becomes a ?

a) Hyperbola b)Ellipse c) Parabola d)remains a circle Ans: Ellipse

95. (2,4) is a point on a circle that has center at the origin. Which of the following points are also on circle ?
a) (2,-4) b) (-2,4) c) (-4,-2) d) All of above

a) (2,-4) b) (-2,4) c) (-4,-2) d) All of above

96. Which technique of color CRT is used for production of realistic imagea) Beam penetrationb) Shadow maskc) both a&bd)None of aboveAns: Shadow mask

97. A composite transformation matrix can be made by determining the ______ of matrix of the individual transformation

a) Sum b) Product c) Difference d) None of the above Ans: Product

98. Each successive transformation matrix ______ the product of the preceding transformation

a) pre-multiplies	b) post-multiplies	c) adds	d)subtracts
Ans: pre-multiplies			

99. Which of the following is not a rigid body transformation?a) Translationb) Rotationc) Shearingd) ReflectionAns: Shearing

100. Forming products of transformation matrices is often referred asa) Concatenationb) Composition c) both a&bd) None of aboveAns: both a&b

101. Two consecutive translation transformation t1 and t2 area) Additive b) Multiplicativec) Subtractived) none of aboveAns: Additive

102. Two consecutive rotation transformation r1 and r2 area) Additive b) Multiplicativec) Subtractived) none of aboveAns: Additive

103. Two consecutive scaling transformation s1 and s2 area) Additiveb) Multiplicativec) Subtractived) none of aboveAns: Multiplicative

104. The process of mapping a world window in world coordinate system to viewport are called

a) Transformation viewing b) Viewport

c) Clipping window d) Screen coordinate system

Ans: Transformation viewing

105. The process of extracting a portion of a database or a picture inside or outside a specified region are called

a) Transformation b) Projection c) Clipping d) Mapping Ans: Clipping

106. The rectangle portion of the interface window that defines where the image will actually appear are called

a) Transformation viewing b) View port c) Clipping window d) Screen coordinate system Ans: View port

107. The phenomenon of having a continuous glow of a beam on the screen even after it is removed is called as ?

a) Fluorescence b) Persistence c) Phosphorescence d) Incandescence Ans: Phosphorescence

108. Coordinates of window are knows as

a) Screen coordinates b) World coordinates c) Device coordinates d) Cartesian coordinates Ans: World coordinates 109. Coordinates of viewport are known as a) World coordinates b)Polar coordinates c) Screen coordinates d)Cartesian coordinates Ans: Screen coordinates 110. The region against which an object is clipped is called a c) Enclosing rectangle d) Clip square a) Clip window b) Boundary Ans: Clip window 111. identifies the picture portions that are exterior to the clip window a) Interior clipping b) Exterior clipping c)Extraction d) None of the above Ans: Exterior clipping 112. Identify line clipping algorithms from the following a) Cohen- Sutherland algorithm b) Liang-Barsky clipping c) Nicholl-Lee-Nicholl clipping d)All of the above Ans: All of the above 113. The region code of a point within the window is b)0000 c)1000 d)0001 a) 1111 Ans: 0000 114. According to Cohen-Sutherland algorithm, a line is completely outside the window if a) The region codes of line endpoints have a '1' in same bit position. b) The endpoints region code are nonzero values c) If L bit and R bit are nonzero. d) The region codes of line endpoints have a '0' in same bit position. Ans: The region codes of line endpoints have a '1' in same bit position. 115. The region code of a point is 1001. The point is in the region of window. a) Top right b) Top left c) Bottom left d) Botton right Ans: Top left 116. The result of logical AND operation with endpoint region codes is a nonzero value. Which of the following statement is true? a) The line is completely inside the window b) The line is completely outside the window c) The line is partially inside the window d) The line is already clipped Ans: The line is completely outside the window

117. The left (L bit) bit of the region code of a point (X,Y) is '1' if

a) X > XW _{MIN} Ans: X< XW _{MIN}	b) X< XW _{MIN}	c) X< XW _{MAX}	d) X>XW _{MAX}	
118. The right bit (R b a) X > XW _{MIN} Ans: X>XW _{MAX}	-	code of a point (c) X< XW _{MAX}		
119 . The Most Signif a) Y > YW _{MIN} Ans: Y>YW _{MAX}		egion code of a j c) Y< YW _{MAX}		
120. The bottom bit of a) Y > YW _{MIN} Ans: Y< YW _{MIN}	-	e of a point is '0' : c) Y< YW _{MAX}		
121. The (viewport) is visibl a) Cohen-Sutherlan Ans: Cohen-Sutherlan	e. Id b)Lian	ides a 2D space i g Barsky	-	ch only the middle part geman d)N-L-N
122. A method used to a) logical XOR Ans: logical AND		tal clipping is eq c)logical AND		
123. Sutherland Hodga) Concave polygoAns: Convex polygon	n b) Con	works well for vex polygon	d)Smooth curves	d) Line segment
124. A transformation a) Reflection Ans: Shear	that slants the sl b) Shear	hape of an objec c) Distortion	t is called d) Scaling	
125. The text clipping calleda) All-or-none charc) Curve clippingAns: All-or-none strin	acter clipping	t an entire chara b) All-or-none d) both a & b	-	aps a clip window is
126 The object ref are calleda) Quadric surfaceAns: Sweep representation	b) Sweep rej	presentation throu presentation	ugh linear, circular o c) Torus d)	r some other representation None of these

127. A quad-tree is a data structure which is used for graphical representation of

a) 2D digital picture or object b)3D picture or object c) Both a & b d)None of these Ans: 2D digital picture or object

128. A octree is a data structure which is used for alternative representation of

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a) 2D digital picture or object c) 3D picture or object c) Both a & b d) None of these Ans: 3D picture or object
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129. How many data elements for each region in quad-tree data structure

a) 2 b) 4 c) 8 d)6 Ans: 4

130. How many data elements for each region in octree data structure

a) 2 b) 4 c) 6 d) 8 Ans: 8

a). Wire frame model
b) Composite transformation
c) Constructive solid geometry methods
d) None

Ans: Constructive solid geometry methods

132. The center of display screen is computed as

a) X max , y max b) Xmax/2, ymax/2 c) Xmax/3, ymax/3 d) None of these Ans: Xmax/2, ymax/2

133. The operation that is used for repositioning the object is calleda) Rubber band methodb) Gravity methodc) Draggingd) None

134. Which method are used to construct and position the straight lines, arcs and circles etc.a) Rubber band methodb) Gravity methodc) Draggingd)None of theseAns: Rubber band method

135. Which are used to connect a line to already drawn linea) Rubber band methodb) Gravity methodc) Draggingd)None of theseAns: Gravity field

136. The rubber band method is also applicable to objects.a) Scaleb) Scalarc) Vectord) RotateAns: Scale

137. is known as standard graphics objects
a) Octree
b) Quadtree
c) Polygon surfaces
d) Ellipsoid
Ans: Polygon surfaces

138. includes vertex coordinates and parameters to identify the spatial orientation of polygon surfaces a) Attribute table b) Geometric table c) Orientation table d) Position table Ans: Geometric table 139. Identify the data structures used to store the data about polygon surfaces a) Vertex table b) Polygon table c) Edge table d) All of the above Ans: All of the above 140. Coordinate values for each vertex is stored in a) Coordinate table b) Vertex table c) Edge table d) Location table Ans: Vertex table 141. data structure is used to identify the vertices for each polygon edge. b) Polygon table d)Surface table a) Vertex table c) Edge table Ans: Edge table 142. data structure is used to identify the edges for each polygon. d)None of the above a) Vertex table b) Polygon table c) Edge table Ans: Polygon table 143. A triangular strip connected with 50 triangles connects vertices. b) 48 c) 50 a) 52 d) 49 Ans: 52 144. When a circle is subjected to translational sweep, a is formed. a) Ellipse b) Cone c) Sphere d) Cylinder Ans: Cylinder 145. A surface of revolution is generated by a of a 2D curve. a) Translational sweep b) Rotational sweep c) union d) intersection Ans: Rotational sweep 146. A prism is generated by translational sweep of a a) Circle b) Square c) Polygon d) Triangle Ans: Polygon 147. The combines the volumes occupied by overlapping 3D objects using set operations b) CSG Method c)Sweep representation d)None of the above a)Beam penetration Ans: CSG Method 148. A is a data structure that recursively subdivides a plane into 4 quadrants b)4-way tree c) quadtree d) 4-way mesh a)Octree Ans: quadtree

149. Identify the methods for Constructive Solid Geometry operationsa) Ray casting b) Ray tracing c) Beam penetraion d) Ray sortingAns: Ray casting					
150 solid representa representations.	tion take advanta	age of spatial coherence	to reduce the storage		
-	b)Octree	c) Polygon surfaces	d) CSG		
151is a data element to sa) Voxelb) VoidAns: Voxel	tore the pixels w c) Tex d) Flag	U	ame color		
152. Empty regions of the space are rea) intb) void c) nulld) empAns: void		e			
 153. If all the pixels within an octant have the same color, it is referred to as a) Heterogeneous octant b) Homogeneous octant c) Simultaneous octant d) Similar octant 					
154is a label set of outputa) Structure b) FunctionAns: Structure	nt primitives and c) Table	its associated attributes. d) List			
155 enables easy modifica) Structureb) FunctionAns: Structure	eation to each pic c) Table	eture element d) List			
156. A structure is created using the functiona) initstructure()b) startstructure()c) openstructure()d) none					
157 is the reference portion value of each structure element.a) element pointerb) indexc) attributed) attribute indexAns: element pointer					
158. Identify the following data structu " If a region is uniform, store it process"	s properties. If a		subdivide it and repeat the		
a) Octree b) List c) Tab Ans: Octree	ie (i) Poly	ygon surface			

159. Identify the data structures that works on divide and conquer strategy. a) List b) Table c) Octree d) Pointer Ans: Octree 160. can be produced by interpolating shading patterns across the polygon surfaces to eliminate or reduce the presence of polygon edge boundaries. a) Rasterizing b) Rendering c) Smoothing d)None Ans: Rendering 161. function is used to display a structure on the screen. b) displaystructure() a) poststructure() c) enablestructure() d) structurepost() Ans: poststructure() 162. All structures can be removed from the screen using the function b) unpoststructure() a) deletestructure() c) removes tructure() d) unposallt structures() Ans: unpostallstructures() 163. Inrepresentation, an octree is decomposed into identical cells arranged in a fixed regular grid. a)cell b) voxel c) pixel d) array Ans: voxel 164. Identify the odd one out a) Input mode b) Accept mode c) Sample mode d) Event mode Ans: Accept mode 165. The typical input operation in a general programming language will be in mode a) Sample b) request c) Event d) Read Ans: request 166. Identify the input mode in which the application program initiates data entry. a) Sample b) request c) Event d) Read Ans: request 167. In input mode, the input devices initiates data input to the application program. b) request c) Event d) Read a) Sample Ans: Event 168. The maximum number of devices that can provide input in request mode is c) Any number of devices a) 2 b)4 d) 1 Ans: 1 169. When an input device is placed in event mode, data input from the device is accumulated in a)Event queue b)Read queue c)Device list d) None Ans: Event queue

170. The device for specifying a coordinate position (x,y) is known as a) String device b) Stroke device c) Valuator device d) Locator device Ans: Locator device 171. Which device is suitable to input a series of coordinate positions. c) Valuator d) String a) Locator b) Stroke Ans: Stroke 172. device is used to specify scalar values. c) Valuator a) Locator b) Stroke d) String Ans: Valuator 173. enables selection of picture components. b) LOCATOR c) STROKE d) CHOICE a) PICK Ans: PICK 174. Choice devices are suitable to select a) Scalar values b) Menu options c) Text input d) Pictute components Ans: Menu options 175. Identify the string device from the following b) Webcam c) Keyboard d) Joystick a) Mouse Ans: Keyboard 176. In picture construction, the entity shape and size is dynamically changed with every mouse movement a) Gravity b) Rubber band c) Constraint d) Painting Ans: Rubber band 177. technique is employed for drawing entities using mouse only. b) Rubber band c) Constraint d) Painting a)) Gravity Ans: Rubber band 178. constraint forces the input point to the nearest intersection on a grid. a) Directional b) Homogeneous c) Modular d)Gravity Ans: Modular 179. is a type of window which is involked by an application when mutiple inputs are required to specify the desired action. a) Dialog box b) Panel c) Icon d)Menu Ans: Dialog box 180. Symbolic representation of some object or process is called c) List d) Label a) Icons b) Menu Ans: Icon 181. is used to connect a new line to a previously drawn line.

a) Gravity field b) Rubberband method c) Paiting d) None Ans: Gravity field 182. Give an example for absolute locator device b) Touch panel c) Light pen a) Mouse d) None Ans: Touch panel 183. Identify an relative locator device from the following b) Touch panel c) Light pen a) Mouse d) Keyboard Ans: Mouse 184. Identify the odd one out a) Icon b) Slider c) Spin box d) Locator Ans: Locator 185. Which of the following is a 3D graphics package? b) AC3D c) Dreamweaver a) Paint d) Lightroom Ans: AC3D 186. displays a list of commands b) List c) Icon d) Checkbox a) Menu Ans: Menu 187. is used to set a value by viewing dynamically the entire data range c) Spin boxes d) Text fields a) Menu b) Slider Ans: Slider 188. is used to select limited choices of predictable values c) Spin boxes d) Text field a) Menu b) Slider Ans: Spin boxes 189. The process of calculating the product of matrices of a number of transformations in sequence is called b) Continuation a) Concatenation c) Mixing d) None Ans: Concatenation 190. The point about which an object is rotated is called a) Fixed point b) Central point c) Pivot point d) None Ans: Pivot point 191. In mode the program requests input and suspends processing until input is received. a) Request b) Event c) Sample d) Constraint Ans: Request

192. Identify odd one out

a) Vector based b) Hardware based c) Bitmap based d) Scanline based Ans: Scanline based

193. When the polygon surfaces are to be tiled, is useda) Polygon net b) Polygon meshc) Polygon blockd) Polygon cellAns: Polygon mesh

194. is the practice by which an object is drawn by fixing one (or more) points, and then stretching the remain points out, connected by a line or lines that grow and shrink according to various properties.

a) Rubber banding b) Gravity c) Dragging d) grid Ans: Rubber banding

195.is created by revolution of a circle about an axis lying in its plane.a) Sphereb) Ellipsoidc) Torusd) CylinderAns: Torus

196. A region quad tree with depth of 'n' may be used to represent an image having resolution

a) 2^{n} b) 2×2^{n} c) $2^{n \times 2^{n}}$ d) 2nAns: $2^{n \times 2^{n}}$

197.is a true tree because the centre of a subdivision always lies on a point.a) Region quad treeb) Edge quad treec) Point quad treed) Child quad treeAns: Point quad tree

198. is an adaptation of binary tree representing the 2-D point dataa) Region quad treeb) Edge quad treec) Point quad treed) Child quad treeAns: Point quad tree

199. quad tree stores line rather than point.

a) Region quad tree b) Edge quad tree c) Point quad tree d) Child quad tree Ans: Edge quad tree

200. is commonly used to store sparse data a) quad tree b) Table c) Binary tree d) Octant Ans: quad tree