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SARDAR PATEL UNIVERSITY

B. Sc. Examination, SEMESTER-V: DECEMBER-2020 COMPUTER SCIENCE

US05CCSC06: Computer Graphics and Multimedia

	Thus Sday, 31 The Cember, 2020	
Time :	: 02:00pm to 04:00pm Total Marks : 70	_
Q.1	· · · · · · · · · · · · · · · · · · ·	10)
_	1. CAD stands for	
	(a) Computer Aided Design (b) Common Application Design	
	(c) Common Aided Design (d) Computer Application Design	
	2 produce illustrations for reports for use with projectors.	
	(a) Computer Art (b) Image Processing	
	(c) Entertainment (d) Presentation Graphics	
	3technique is used to modify or interpret existing pictures.	
	(a) Computer Art (b) Image Processing (c) Visualization (d) None	
	4. In odd-even rule, if the number of polygon edges crossed by this line is odd,	:
	then that point is point.	
	(a) Interior (b) Fully exterior (c) Partially interior (d) Exterior	
	5. In non-zero winding rule, edges count is called	
	(a) Total Winding counting (b) Edges Number	
	(c) Winding Number (d) Non-Zero Counting	
	6. The overall design style for a set of characters is called	
	(a) Character style (b) Face style (c) Typeface (d) Character face	
	7. An area on a display device to which a window is mapped is called a	
	(a) window (b) viewport	
	(c) clip window (d) viewing transformation	
	8. A scaling transformation alters the of an object.	
	(a) size (b) orientation (c) shape (d) none of these	
	9. Audio Jacks are hole connecting interface on the audio cards.	
	(a) Single (b) Double (c) Both (a) & (b) (d) None of above	
	10. The analog means	
	(a) continuous varying (b) stepwise varying	
	(c) non varying (d) none of above	Γ_{00}
Q.2	THE Up the Dimin unit of 2.1 do/2 miles	08)
	1. CRT stands for	
	2 part of CRT is responsible for controlling brightness.	
	3. DDA Stands for	
	4 is the equation for straight line.	
	5. Rotation point is also known as pivot point. [True / False]	
	6. Shear transformation that distorts the shape of an object. [True / False]	
	7. The full form of MIDI is Musical Instrument Digital Interface.	
	[True / False]	
	8. Sound Cards are basically meant for Digital Audio Recording, Amplification and Playback, ITrue / Falsel	
	Ambilication and Piavdack, 11 fue / Paisei	

Q.3 Answer the following questions in short (Any 10):

[20]

- 1. Define Bitmap.
- 2. Define Normalized device coordinate.
- 3. Define Resolution.
- 4. Write only algorithm for Flood Fill operation.
- 5. Differentiate: Bitmap font and Outline font.
- 6. Differentiate: serif and sans serif fonts.
- 7. Define with example Rotation.
- 8. Define with example Window.
- 9. Define with example Viewing transformation.
- 10. List the benefits of Digital Audio.
- 11. List various facets of multimedia.
- 12. Explain the need for audio editing.
- Q.4 Answer the following questions in LONG (Any 4):

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- 1. Write note on Data glove and Voice systems input devices.
- 2. Write note on DVST and Plasma Panel.
- 3. What is filled area primitive? Write a short note on scan line polygon fill algorithm.
- 4. Explain Boundary fill algorithm with 4-connected and 8-connected approach.
- 5. Write a short note on line clipping algorithm.
- 6. What is geometric transformation? Explain all 2-D geometric transformation in detail.
- 7. Explain in detail Digital Medium and Sound Channeling.
- 8. Explain in detail Multimedia Software.

