G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI - 628 502.



UG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024.

(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.Sc., COMPUTER SCIENCE

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
IV	PART- III	CORE ELECTIVE	U21CS4E2B	COMPUTER GRAPHICS

Date & Session: 12.11.2024 / AN Time: 3 hours Maximum: 75 Ma					
Course	Bloom's K-level	Q. No.	<u>SECTION - A (10 X 1 = 10 Marks)</u> Answer <u>ALL Questions.</u>		
CO1	K1	1.	The cartesian slope-intercept equation for a straight line is. a) $y = b$ b) $y = m.x + b$ c) $x = m.y - b$ d) $y = m + x.b$		
CO1	K2	2.	Which of the following method is used to select a particular chathe marker symbol? a) setMarker() b) selectMarker() c) setMarkerType() d) selectMarkerType()	racter to be	
CO1	K1	3.	A World coordinate area selected for display is called as. a) window b) viewport c) Line d) graphics		
CO1	K2	4.	Which transformation will alter the size of the object? a) Clipping b) Translation c) Scaling d) Rotation		
CO1	K1	5.	The expansion of OCR stands for. a) Optical Character Recognition b) Object Code Recognition c) Optical Code Recognition d) Object Code Reading		
CO1	K2	6.	The visual format of a machine-readable representation of information (a) Color code (b) barcode (c) Pixel (d) sampling	nation is.	
CO1	K1	7.	The storage medium consists of a coating of a magnetic material plastic strip is called. a) Magnetic tape b) phonograph cylinder c) gramophone record d) cartridge	l on a thin	
CO1	K2	8.	Which of the following is an audio CODEC developed by Apple colossless encoding of digital music. a) TTA b) APE c) AAC d) ALE	omputer for	
CO1	K1	9.	Which one of the following is a format of video recording. a) MP3 b) VERA c) MIDI d) AVI		
CO1	K2	10.	The process of physically changing the data based on some inst via an interface is known as. a) Video editing b) Clipping c) rendering d) Splitting	ruction given	

Course Outcome	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - B \text{ (5 X 5 = 25 Marks)}}{\text{Answer } \underline{\text{ALL}}}$ Questions choosing either (a) or (b)
CO2	К3	11a.	Show how would you generate a line using Bresenham algorithm. (OR)
CO2	КЗ	11b.	Illustrate the properties of circle.
CO2	КЗ	12a.	How would you apply basic transformation in a line? (OR)
CO2	КЗ	12b.	What would be the outcome of window to viewport transformation.
CO3	K4	13a.	Examine the various compression method for text. (OR)
CO3	K4	13b.	Identify the various file formats available.
CO3	K4	14a.	Compare between the WAV and AIFF file formats. (OR)
CO3	K4	14b.	Categorize the various audio recording devices.
CO4	K5	15a.	Discuss about analog video camera. (OR)
CO4	K5	15b.	Discuss the various video signal formats.

Course Outcome	Bloom's K-level	Q. No.	SECTION - C (5 X 8 = 40 Marks) Answer ALL Questions choosing either (a) or (b)
CO2	К3	16a.	Illustrate the concept of Color and Grayscale levels. (OR)
CO2	К3	16b.	Illustrate the area fill attributes.
CO3	K4	17a.	Analyse the steps to use the shear and reflection transformation. (OR)
CO3	K4	17b.	Examine the steps to perform cohen-sutherland line clipping.
CO3	K4	18a.	Analyse the working principle of digital camera. (OR)
CO3	K4	18b.	Identify the various color models.
CO4	K5	19a.	Assess the functions of audio processing software. (OR)
CO4	K5	19b.	Discuss the concept of MIDI specification.
CO4	K5	20a.	Discuss the three standards for Television Broadcasting. (OR)
CO4	K5	20b.	Discuss the various function of video editing software.