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



UG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.

(For those admitted in June 2021 and later)

PROGRAMME AND BRANCH: B.Sc., COMPUTER SCIENCE

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

Date & Session: 23.04.2025/FN Time: 3 hours Maximum: 75 Marks

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer ALL Questions.	
CO1	K1	1.	bits are needed to specify an RGB colour for a pixel. a)8 b)16 c)24 d)32	
CO1	K2	2.	Circles, ellipses, and other curves attributes will appear thinnest where the slope has a magnitude of a)1 b)2 c)3 d)4	
CO2	K1	3.	A World coordinate area selected for display is called as. a) graphics b) viewport c) Line d) window	
CO2	K2	4.	Which transformation will alter the size of the object? a) Clipping b) Translation c) Scaling d) Rotation	
CO3	K1	5.	The standard is a new universal character coding scheme for written characters and text. a) chat b) Unicode c) colour d) barcode	
CO3	K2	6.	The expansion of OCR stands for. a) Optical Character Recognition b) Object Code Recognition c) Optical Code Recognition d) Object Code Reading	
CO4	K1	7.	The storage medium consists of a coating of a magnetic material on a thin plastic strip is called. a) phonograph cylinder b) Magnetic tape c) gramophone record d) cartridge	
CO4	K2	8.	is a standard to transmit and store music, originally designed for digital music synthesizers. a) MUDI b) MIDI c)Audio d)TV	
CO5	K1	9.	Which one of the following is a format of video recording. a) MP3 b) VERA c) MIDI d) AVI	
CO5	K2	10.	Motion video is also conceptually similar to a) audio b) Music c) still d) animation	

Course	Bloom's K-level	Q. No.	$\frac{\text{SECTION} - B \text{ (5 X 5 = 25 Marks)}}{\text{Answer } \frac{\text{ALL}}{\text{Questions choosing either (a) or (b)}}$
CO1	КЗ	11a.	Outline the attributes of the line with a diagram. (OR)
CO1	КЗ	11b.	Illustrate the properties of circle.
CO2	КЗ	12a.	Explain the 2D basic transformation. (OR)
CO2	КЗ	12b.	Describe the window-to-viewport coordinate transformation.
CO3	K4	13a.	Classify the types of text. (OR)
CO3	K4	13b.	Write about the various types of scanners.
CO4	K4	14a.	Compare between the WAV and AIFF file formats. (OR)
CO4	K4	14b.	Give your opinion on using the microphone.
CO5	K5	15a.	Provide a comprehensive note on the existing video file formats. (OR)
CO5	K5	15b.	Consider the video signal formats.

Course Outcome	Bloom's K-level	Q. No	$\frac{\text{SECTION} - C \text{ (5 X 8 = 40 Marks)}}{\text{Answer } \frac{\text{ALL}}{\text{Questions choosing either (a) or (b)}}$
CO1	КЗ	16a.	Describe Bresenham's Line drawing algorithm with a diagram. (OR)
CO1	КЗ	16b.	Illustrate the concept of Color and Grayscale levels.
CO2	K4	17a.	Discuss Cohen's Sutherland line clipping algorithm in detail. (OR)
CO2	K4	17b.	Analyse the steps to use the shear and reflection transformation.
CO3	K4	18a.	Illustrate the methods to insert text in a document. (OR)
CO3	K4	18b.	Differentiate the various file formats.
CO4	K5	19a.	Analyze sound card and audio file formats in detail. (OR)
CO4	K5	19b.	Discuss the concept of MIDI specification.
CO5	K5	20a.	Discuss the three standards for Television Broadcasting.
CO5	K5	20b.	(OR) Assess the various video editing software used for professional content creators.