## C 36519

(Pages 2)

Name..... Reg: No.E.G.A. CATION DECREE DECREE Maximum 100 Marks

## EIGHTH SEMESTER B.TECH. (ENGINEERING) DECREMENTS DECREMENTS (CONTRACTOR) DECRE

CSE 803—COMPUTER GRAPHICS

(Old Scheme)

Time : Three Hours

I. .

## Answer all the questions.

- 1 List out the common questions raised w.r.t. interactive graphics.
- 2 Write a note on plasma panel.
- 3 Explain the inside-outside test.
- 4 Discuss any five methods related to segmented display file management.
- 5 Outline the working of a mouse.
- 6 Explain the use/applications of Raster graphics.
- 7 How to model objects (3D)?
- 8 Define : Shading Image processing (in few words).
- II. (a) (i) Explain the circle generation algorithm in detail.
  - (ii) Define :

Persistence. Aspect Ratio. Resolution. Graphics card. Raster. (8 × 5 = 40 marks) (8 marks)

(7 marks)

(8 marks)

(7 marks)

(8 marks)

(7 marks)

Or

(b) (i) Discuss the types of CRT in detail.

(ii) Tabulate the points generated from (0, 0) to (15, -7) using :

- (i) Simple DDA.
- (ii) Symmetric DDA.
- III. (a) (i) Discuss the types of 2D transformations with examples.
  - (ii) Explain character/Text clipping in detail.

Or

	2	C 36519	
(b) (i)	Explain the Sutherland-Hodgman algorithm for polygon clipping.		
(ii)	Evaluin the diastan Charter in a second in the polygon clipping.	(8 marks)	
		(7 marks)	
	Describe the characteristics of light pen with a neat diagram.	(8 marks)	
(11)	Explain the various techniques associated with input selection.	(7 marks)	
11 - 1 - E.	Or and the second s		
(b) (i)	Discuss Boundary fill and flood fill algorithms.	(8 marks)	
(ii)	Explain the input functions related to input devices.		
V. (a) (i)	Explain priority algorithm (Beintenla) - 1 - int	(7 marks)	
	Explain priority algorithm (Pointer's) algorithm used for scan conversion.	(8 marks)	
; (ii)	Discuss the features of any graphics application of your choice.	(7 marks)	-
×	Or	1	
(b) (i)	Explain Z buffer algorithm and its limitations.	(10 marks)	

(ii) Define :

.2

Halftoning.

Antialiasing.

(5 marks)