K. J. Somaiya Institute of Technology, Sion, Mumbai-22 (Autonomous College Affiliated to University of Mumbai)

(B. Tech) Program: AI &DS Scheme I/II/IIB/III:II

Examination: SY Semester: III

Course Code: AIC305 and Course Name: Computer Graphics

06/03/20 Date of Exam:

Duration: 2.5 Hours

Max. Marks: 60

Supplementary Examination

Instructions:

(1) All questions are compulsory.

(2) Draw neat diagrams wherever applicable.

(3) Assume suitable data, if necessary.

	F-72	Max. Marks	СО	BT level
Q 1	Solve any six questions out of eight:	12		3
i)	List any four flat-screen technologies, with their applications in one line each	2	I.	U
ii)	What is the most important shortcoming of the DDA algorithm	2	2	U
iii)	Derive matrix equation for multiplication	2	3	U
iv)	What are the advantages of Cohen Sutherland algorithm.	2	4	U
v)	What is the Orthogonal projection	2	5	U
vi)	What is the Z-buffer	2	6	U
vii)	List various transformations	2	3	U
viii)	What is meant by the world coordinates	2	4	U
Q.2	Solve any four questions out of six.	16	Trap - eq.	ş
i)	Draw the block diagram of the Cathode Ray Tube and explain each block in a couple of lines.	4	1	U
ii)	Explain how the increment parameter is calculated in the DDA algorithm	4	2	U
iii)	Write any 8 points on a circle having a center at (2,2) and a radius of 4 units	4	2	Ap
iv)	Explain the process of region code / out code generation in the Cohen- Sutherland Line clipping algorithm	4	5 - 4 - 6	U

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March 2024

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