## Computer Graphics

2009 May

Science Information Technology

**FYBSc-IT** 

Semester 2

**University Exam** 

University of Mumbai

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## FYBSC-IT SEH-II

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## Computer Graphics

DM-5202

(3 Hours)

[Total Marks: 100

I.B.: (1) Question No. 1 is compulsory.

- (2) Attempt any four questions from the remaining.
- (3) All questions carry equal marks.

Wr	ite short notes on :	20
(a	2) Z - buffer algorithm	
(b	Polygon clipping	
(c		
(a)	Derives expressions for decision parameter of mid - point circle algorithm.	10
(b)	Explain the Sutherland and Cohen subdivision algorithm for line clipping with the help of an example.	10
(a)	What do you mean by computer animations? Discuss the steps involved in the design of an animation sequence.	10
(b)	Write a detailed not on the various types of projections.	19
(a)	Flood fill algorithm.	10
(p)	Boundary fill algorithm.	10
(a)	Write a note on Bezier curves. Explain the midpoint approach of constructing 10 Bezier curves.	
	Explain DDA algorithm. (digital differential analyzer)	10
(a)	Write short notes on: shadow mask technique.	10
	What is morphing? Explain its rules.	10
Writ	e short notes on :—	20
1	(a) Light pen	~0
	(b) Voice systems	
1	(c) Image scanner.	

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