Roll No.	Total No. of Pages: 02
----------	------------------------

Total No. of Questions: 09

M.Sc.(IT) (2015 Onwards) (Sem.-3) COMPUTER GRAPHICS

Subject Code: MSIT-301 M.Code: 74066

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.
- 2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

	SECTION-A	
Q1	Differentiate random and raster scan systems in detail.	10
Q2	Explain the following:	
	(a) Flat panel display	5
	(b) RGB and CMYK color models	5
	SECTION-B	
Q3	What is scan conversion? Write and explain DDA algorithm for a line.	10
Q4	Define circle. Write and explain mid-point algorithm to draw a circle.	10
	SECTION-C	
Q5	What is the significance of geometric transformations? Explain the procedure to rotate or object about X and Y axis.	
Q6	What is clipping. Write and explain Cohen Sutherland algorithm for line clipping.	10
	SECTION-D	
Q7	Discuss the significance and working principle of Gouraud and Phong shading methods.10	
Q8	Explain the following:	
	(a) Working of Painter's algorithm	5
	(b) Use of Dithering techniques in graphics	5

1 M-74066 (S6)-451

SECTION-E

- Q9 a) Write any two applications of computer graphics.
 - b) Define lookup table.
 - c) What is interactive computer graphics?
 - d) Define persistence.
 - e) What is use of flood fill techniques?
 - f) Define orthographic projection.
 - g) What is use of morphing?
 - h) Define diffuse reflection.
 - i) What is use of digitizer in computer graphics?
 - j) What is role of coordinate systems?

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 | M-74066 (S6)-451