



ED – 772

**V Semester B.E. (CSE/ISE) Degree Examination,
December 2014/January 2015
(2K11 Scheme)
CI 55 : COMPUTER GRAPHICS**

Time : 3 Hours

Max. Marks : 100

Instruction : Answer ***five*** questions selecting atleast ***two*** from ***each*** Part.

PART – A

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| 1. a) Define and explain the term “Computer Graphics”. | 5 |
| b) Discuss the applications of Computer Graphics. | 10 |
| c) Write the block diagram of the Graphics System. | 5 |
| 2. a) Discuss the functions in OpenGL. | 10 |
| b) Explain the algorithm to construct a Sierpinski gasket. | 10 |
| 3. Write a note on : | |
| a) Event Driven Input | 10 |
| b) Design of interactive programs. | 10 |
| 4. a) Explain Affine Transformation with suitable examples. | 10 |
| b) Write program to draw a color cube. | 10 |

PART – B

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| 5. a) Explain 3D transformations in Homogeneous coordinate system. | 10 |
| b) Write a note on interfaces to three dimensional applications. | 10 |
| 6. a) Explain projections in OpenGL. | 10 |
| b) Write a note on projections and shadows. | 10 |

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| 7. a) Explain Specular Surface and Diffuse Surface with an example. | 10 |
| b) List the basic types of light sources and explain each of them. | 10 |
| 8. a) Explain Antialiasing with example. | 5 |
| b) Explain Liang-Barsky line clipping algorithm. | 10 |
| c) Write a note on any Bresenham's algorithm. | 5 |
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