

Seat No. _____

B.Sc. (I.T.) Semester V Examination

March - 2015

Paper No. 502 Computer Graphics using C++

Time: 2:30 Hours

4805

Total Marks :70

Q – 1. Answer the following questions.

1. Enlist applications of Computer Graphics and explain any two in detail. [7]
2. Explain Computer Graphics software standards. [7]

OR

Q – 1. Answer the following questions.

1. Differentiate: Raster graphics and Vector graphics. [7]
2. Write a short note on Graphical User Interface. [7]

Q – 2. Answer the following questions.

1. Explain Bresenham's line drawing algorithm. [7]
2. Write Midpoint circle drawing algorithm with tracing. [7]

OR

Q – 2. Answer the following questions.

1. Explain DDA line drawing algorithm. [7]
2. Explain Polynomials and Spline curves. [7]

Q – 3. Answer the following questions.

1. Explain Scan-line polygon fill algorithm. [7]
2. Write a short note on Character generation. [7]

OR

Q – 3. Answer the following question.

1. Explain Line attributes. [7]
2. Write a short note on Inside-Outside Tests. [7]

Q – 4. Answer the following questions.

1. Write a short note on Rotation. [7]
2. Explain Homogeneous coordinate. [7]

OR

Q – 4. Answer the following question.

1. What is Scaling? Explain scaling about origin. [7]
2. What is Computer Animation? Explain Raster animation. [7]

Q – 5. Answer the following question.

1. Explain Cohen Sutherland line clipping algorithm. [7]

2. Write a short note on Window to Viewport coordinate transformation. [7]

OR

Q – 5. Answer the following question.

1. What is Clipping ? Explain Point Clipping in detail. [7]

2. Enlist 3D display methods and explain any 2 in detail. [7]