MCA 4th Semester Examination, 2016 COMPUTER GRAPHICS LAB

(Practical)

PAPER-MCA-406

Full Marks: 50

Time: 3 hours

Answer any one on lottery basis

The questions are of equal value

- 1. Write a program to implement DDA and Bresenham's line drawing algorithm.
- 2. Write a program to draw a hexagon using Bresenham's line drawing algorithm.
- 3. Write a program to draw an ellipse using an ellipse drawing algorithm.

- 4. Write a program to draw a circle using a circle drawing algorithm.
- 5. Write a program to rotate a triangle about origin.
- 6. Write a menu driven program to translate, scale and rotate a line about the origin.
- 7. Write a program to show all standards of shear transformation.
- 8. Write a program to clip a line segment.
- 9. Write a program to translate a rectangle.
- 10. Draw the following figure using any circle drawing algorithm:



- 11. Write a program to do the following transformations in sequence:
 - (i) 90° rotation of a line about origin
 - (ii) reflection of the line about line y = 0.
- 12. Write a program to implement polygon filling.
- 13. Write a program to draw a Bazier curve using4 control points.
- 14. Write a program to draw the following figure without using any inbuilt function:



15. Write a program to display the first letter of your name using any line drawing algorithm.

PNB : 5 marks
Viva voce : 10 Marks