# NEW

# 2015

## BCA

### 6th Semester Examination

#### GRAPHICS LAB

##### PAPER—3294 (SET – 1)

*Full Marks :* 100

*Time :* 3 Hours

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

Answer any *one* question :        1×40

1. Fill a rectangle using any standard filling algorithm.

2. Implement Cohen-Sutherland line clipping algorithm.

3. Write a program to draw a polygon using Bresenham's line drawing algorithm.

4. Write a program to draw a circle using mid-point circle drawing algorithm.

5. Write a program to fill the below figure with appropriate colours using any filling algorithm.

6. Write a program to draw a line using Bresenham's line drawing algorithm.

7. Draw a Circle using mid point Circle drawing algorithm. Draw three circle as mention given below :
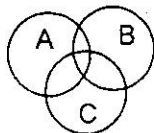


8. Write a program to implement 2D scaling of a rectangle w.r.t. origin.

9. Write a program to draw the following figure using any standard line drawing algorithm.



10. Write a program to display the following figure.
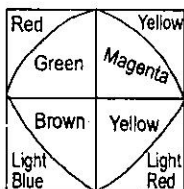


*VIVA : 20*

*PNB : 10*

*[Internal Assessment : 30]*