



**Part-III**

**Only Long Answer Type Questions (Answer Any Two out of Four)**

- Q3** Write a C program using a function to compute the distance between two points (x,y) and use it to create another function that will calculate area of triangle ABC, given its three vertices A(x<sub>1</sub>,y<sub>1</sub>), B(x<sub>2</sub>,y<sub>2</sub>), C(x<sub>3</sub>,y<sub>3</sub>). **(16)**
- Q4** How parameters are passing through function through two techniques? Explain with an example. **(16)**
- Q5** Differentiate between Continue and Break statement. Write a C program to calculate the grade of a student by considering the following range of marks using switch-case statement. **(16)**  
Grades = O, 90 ≤ Marks ≤100      E, 80 ≤Marks < 90      A, 70 ≤Marks < 80  
B, 60 ≤Marks < 70      C, 50 ≤Marks < 60      D, 40 ≤Marks < 50      F, Otherwise
- Q6** Define recursive function. Find out factorial of a number using recursive function and non-recursive function. **(16)**