Part A

Q1: Define the different network topologies?

Q2: Write about different networking devices?

Q3: Describe E-mail?

Q4: write about SMTP?Also describe about its different phases.

Q5: Write about IMAP/POP?Also give its advantages and disadvantages.

Part B

Q1: Explain in detail about the different layers of OSI model?

Q2: Explain the TCP/IP protocol and FTP?

Object Oriented Programming Using C++

Part A

Q1: Explain the different OOP's Characteristics?

Q2: Applications of Object Oriented programming language?

Q3: What is operator overloading?

Q4: Difference between class and structure?

Q5: What do you mean by pointers?

Part B

Q1: Write a program on Factorial using C++?

Q2: Write a program on leap year using C++?

Computational Techniques

PART-A

1.If f(x)=$x^2 + 2$.Find the roots of f(x) by using Newton Raphson method.

2.Solve $2x + 3y + 5z = 2$,x+2y+3z=5,3x+4y+z=1 by using Gauss Elimination Method.

3. Find the solution to the following system of equations using the Gauss-Seidel method. 12x+3y-5z=1,x+5y+3z=28,3x+7y+13z=76.Use x=1,y=0,z=1 as the initial guess and conduct two iterations.

4.Find $\int_0^1 (1 + x^2)dx$ using Simpson's 1/3 method.

5.Find $\int_0^1 (sinx + cosx)dx$ using simpson's 3/8 rule.

PART-B

1. If **f(x)** is known at the following data points

$\mathbf{x_i}$	0	1	2	3	4
$\mathbf{f_i}$	1	7	23	55	109

then find **f(0.5)** and **f(1.5)** using Newton's forward difference formula.

2.Use Euler's Modified Method to find y(0.2) if h=0.1

$$\frac{dy}{dx} = \frac{50x^2 - 10y}{3}$$

y(0)=0.

PRINCIPLE OF MANAGEMENT

Part A

1. Describe the process of management?

2. What is planning? Explain the process of planning?

3. Explain the concept of management?

4. What is decision making and state the types of decision making?

5. Explain systems approach and contingency approach?

Part B

1. Describe the 14 principle of Fayol?

2. Hierarchy of management?

3. Describe the concept and nature of management?

4. What is Motivation and describe its theories also?

5. Describe the barriers of effective planning?