MCA 2nd Semester

Assignment: Data Structures using C

Part A

Q1:Define Stack and queue data structure.

Q2:Explain the list representation technique.

Q3:Explain the Dynamic storage allocation technique.

Q4:Explain Depth first search.

Q5:what do you mean by binary tree.explain with example.

PART-B

Q1:Explain Bubble Sort with an example.Write a program in C for bubble sorting.

Q2:Explain intertion sort with an example.Write a program in C for intertion sorting.

MCA 2nd Semester

Assignment: Computer Based Numerical & Statistical Techniques

Part A

Q1:Compute the real root of $x^2 - 5x + 3 = 0$ in the interval [1,2] by the Regula Falsi method. Upto three iterations only.

Q2:Find the root of the equation $f(u) = x^3 - 3x - 5 = 0$ which lies between 2 and 3 by the Muller's method.

Q3:Define Rate of convergence. Obtain rate of convergence of Newton Raphson method.

Q4:The ordinates of a normal curve are given by the following table

<i>x</i> :	.0	.2	.4	.6	.8
y:	.3989	.3910	.3683	.3332	.2897

Calculate: (i) y(.25) (ii) y(.62)

Use Newton's method of interpolation.

Q5:Find the first and second Derivative at 1.1 for the data

<i>x</i> :	1.0	1.2	1.4	1.6	1.8	2.0
<i>f</i> (<i>u</i>):	0	.1280	.5440	1.2960	2.432	4.00

Part B

Q1:Write Short note on Quality control methods.

Q2:Fit the curve $y = ax^b$ to the following data, using methods of least squares.

<i>x</i> :	1	2	3	4	5	6
y:	2.98	4.26	5.21	6.1	6.8	7.5

MCA 2nd Semester

Assignment: Computer Organization

Part A

Q1: List of registers for the basic computer.

Q2: Explain the format of micro instruction.

Q3: Draw the flow chart that describes the CPU –I/O channel communication.

Q4 Explain about the arithmetic micro operations.

Q5: Explain the instruction pipeline processing in RISC architecture.

Part B

Q1: Explain about the auxiliary memory.

Q2: Explain the selection of address for control memory.

MCA 2nd Semester

Assignment: Principles of Management

Part A

Q1: Define Management and its concept?

Q2:Explain the functions of Management? What are the managerial skills at various levels.

Q3:Define planning . Explain the Process of planning?

Q4:Describe Directing & Leadership:- X Theory, & Y Theory?

Q5:Define the organizing process and its importance?

<u>Part – 2</u>

Q1:What is communication and also describe its barriers & remedies?

Q2:Define Motivation? Explain the Herzberg's theory?

MCA 2nd Semester

Assignment: Environmental Science and Ethics

Part A

Q1: Explain the short information of ecology & Ecosystem?

Q2: What is effect on ecology & ecosystem, different development?

Q3: Explain the global warning concerns?

Q4: Explain the different source of pollution?

Q5: Explain the factors effecting water pollution?

PART-B

Q1: Explain the different source of air pollution?

Q2: What is Electro static Precipitations?