

**B.Tech. Degree (F.T/P.T) I & II Semester (Combined)
Examination, June 2001**

**IT/CS/EC/CE/ME/SE/EI/EB 109 COMPUTER
FUNDAMENTALS
(1999 admissions)**

Time: 3 Hours

Max. Marks: 100

MODULE - I

- I a) Discuss about the evolution of computers and types of computers briefly. (10)
b) Draw a flow chart to check whether a given number is a prime number or not. (10)

OR

- II a) Discuss about time sharing and real time operating system concepts. (10)
b) Compare the operating system concepts of BIOS and DOS. (10)

MODULE - II

- III a) Write a QBASIC program to check whether a given matrix is skew symmetric. (10)
b) Write a QBASIC program to accept two 3 x 3 matrices of integers and facilitate matrix multiplication if they are confirmable. (10)

OR

- IV a) Write a QBASIC program to accept three integers and find whether they form a Pythagorus triplet. (10)
b) Write a QBASIC program to accept ten integers in an array and arrange them in ascending order. (10)

MODULE - III

- V Write a QBASIC program to draw a robot arm and make it to pick and place an object. (20)

OR

- VI Write a program to plot the graph of $\sin x + \cos y + 50$ for different values of x and y . (20)

MODULE - IV

- VII Write a QBASIC program to create a sequential file and store the name of an employee, his basic salary, HRA and DA and deductions as income tax and PF and find the net salary for 20 employees. (20)

OR

- VIII Write a QBASIC program to create a random access file containing Item Code, Item Name, Unit Cost and Quantity. Read data from the file and display it. (20)

MODULE - V

- IX Design structure of data base file in FOXPRO to store the following information of students in a University.

NAME
REG-NO.
COURSE
RESULT (PASS/FAILED)
PERCENTAGE (20)

OR

- X Explain the difference between sorting and indexing. Which is better ? Why ? (20)