B.TECH. DEGREE (F.T) I AND II SEMESTER (COMBINED) EXAMINATION IN INFORMATION TECHNOLOGY/COMPUTER SCIENCE AND ENGINEERING/ ELECTRONICS AND COMMUNICATION ENGINEERING/CIVIL ENGINEERING/ MECHANICAL ENGINEERING/SAFETY AND FIRE ENGINEERING/ELECTRONICS AND INSTRUMENTATION ENGINEERING/BIOMEDICAL ENGINEERING AND (P.T) IN ELECTRONICS AND COMMUNICATION ENGINEERING, JUNE 2000

IT/CS/EC/CE/ME/SE/EI/BE   109   COMPUTER FUNDAMENTALS

Time: 3 Hours   *Max. Marks: 100*

MODULE - I

I   a)   Explain about the various generation of computers.   (10)

      b)   Explain the functions of
           (i)   ALU, and
           (ii)   Control unit of a computer system.   (10)

OR

II   a)   What are the qualities of a word processing package ? Explain briefly.   (10)

      b)   Discuss the usefulness of flow charts and algorithms in program
           development.   (10)

MODULE - II

III   a)   Discuss the rules of using constants and variables in BASIC language.   (10)

      b)   Write a program in BASIC to obtain average of 'n' numbers.   (10)

OR

IV   Write a program to multiply two 4 x 3 matrices.   (20)

MODULE - III

V   a)   Discuss about 'GET and PUT' statements in BASIC.   (8)

      b)   Write a program in BASIC to draw a 'nut' and move it across the screen.   (12)

OR

VI   a)   Explain how you will perform animation ? What is the importance of
           animation in our day-to-day application ?   (10)

      b)   Discuss the importance of functions and subroutines in program
           development.   (10)

MODULE - IV

VII   a)   Discuss about the various types of file organisation in BASIC.   (10)

      b)   Write a program in BASIC to create a sequential file.   (10)

OR

VIII a)   Write a program in BASIC to print the name of students and his/her total
           marks provided the name and marks of 7 subjects of 120 students are
           available in a sequential file named MARK.DAT   (20)

MODULE - V

IX   a)   Define the term 'DBMS' and discuss its importance in data processing.   (8)

      b)   Illustrate the following facilities in FOXPRO.
           (i)   SORT   (ii)   INDEX   (12)

OR

X   Design a structure for a database file in FOXPRO to store the following
      information of a student
      Name
      Date of Birth
      Address
      Date of Admission
      Class in which Admitted
      Expected year of completion.   (20)

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