R13

Code No: 811AC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA I Semester Examinations, August - 2017
COMPUTER PROGRAMMING

Time: 3hrs   **Max.Marks:60**

Note: This question paper contains two parts A and B.
      Part A is compulsory which carries 20 marks. Answer all questions in Part A.
      Part B consists of 5 Units. Answer any one full question from each unit. Each question
      carries 8 marks and may have a, b, c as sub questions.

PART - A

5×4 **Marks = 20**

1.a) Explain the type conversions allowed in 'C' Language. [4]
  b) What is the use of default alternative in Switch statement? Compare use of switch with nested if-else statement. [4]
  c) How to initialize array? Explain with example and write its uses. [4]
  d) Define structure and union. Explain the way of declaring and accessing them. [4]
  e) Explain the concept of files, records and fields. [4]

PART - B

5×8 **Marks = 40**

2. What do you understand by operators? Explain the use of the following operators
   a) relational   b) logical   c) arithmetic operators. [8]

OR

3.a) Discuss precedence order and associativity of operators.
  b) What is typecasting? When should a typecast be used? [4+4]

4. A cashier has currency notes of denominations 10, 50 and 100 each of x, y and z quantities. If the amount to be withdrawn is input through the keyboard, find the total number of currency notes of each denomination the cashier will have to give the withdrawer. [8]

OR

5.a) What are functions? What is the advantage of using function in a program?
  b) What are macros? Is it better to use a macro or a function? [4+4]

6. Write a C language program to read one matrix and find the sum of its diagonal elements. [8]

OR

7. What is dynamic memory allocation? Write and explain the different dynamic memory allocation functions in C. [8]

8. What do you understand by strings? How do you declare a string? Write a program to copy one string into another. [8]

OR

9. Explain array of structures and structure within a structure with examples. [8]

10. Write a program that prints only those lines from a file which are containing more than 50 characters. [8]

OR

11. Write a C language program to copy the contents of one file to another file using command line arguments. [8]