R13

Code No:811AC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA I Semester Examinations, June/July - 2018
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)	Discuss the concept of Type Conversion with an example.	[4]
b)	Write the differences between while and do-while statements.	[4]
c)	What is an array? Write down its applications.	[4]
d)	Explain briefly about nested structures.	[4]
e)	Explain briefly about ftell( ) and rewind( ) functions.	[4]

PART - B

5 × 8 Marks = 40

2.a)   Write down the advantages and disadvantages of structured programming.
   b)   Explain the terms precedence and associativity in evaluating an expression.   [4+4]

OR

3.a)   Mention various rules for naming a variable in C.
   b)   Describe various computing environments with neat diagrams.   [4+4]

4.   Explain briefly about selection statements in C with clear syntax and example.   [8]

OR

5.a)   Write a C program to generate a sequence of prime numbers between given range.
   b)   Briefly explain various function parameter passing mechanisms.   [4+4]

6.a)   Why is it necessary to give the size of an array in an array declaration?
   b)   Explain with an illustrative example program for declaring an array and accessing its elements.   [4+4]

OR

7.   Explain how a multidimensional array is defined in terms of a pointer to a collection of contiguous arrays of lower dimensionality with an illustrative C program.   [8]

8.   Explain the process of passing an entire structure to a function using a program.   [8]

OR

9.a)   Explain briefly about command line arguments.
   b)   Discuss about various string I/O functions available in C.   [4+4]

10.   Describe the following I/O functions:
   a) fopen( )   b) fprintf( )   c) fscanf( )   [8]

OR

11.a)   Write a C program that copies the contents of a binary file of integers to a second file.
    b)   Write down the differences between text files and binary files.   [4+4]

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