R13

Code No:811AC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA I Semester Examinations, April/May - 2019
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 in detail about logical operators and bitwise operators.	[4]
b)	Write down the differences between switch-case and if-else ladder.	[4]
c)	Explain briefly about malloc( ) and calloc( ) functions.	[4]
d)	What are self-referential structures? Discuss briefly.	[4]
e)	Explain briefly about feof( ) and ferror( ) functions.	[4]

PART - B

5 × 8 Marks = 40

2.a) Explain the need of compiler, linker and loader in computer programming.
  b) Briefly explain the classification of computer languages.   [4+4]

OR

3.a) What is an unsigned integer constant? What is the significance of declaring a constant as unsigned?
  b) Describe various operators used in C programming.   [4+4]

4.a) Explain briefly about repetition statements in C with clear syntax and example.
  b) Discuss the limitations of recursive functions.   [4+4]

OR

5.a) Write a C program to test whether a given number is palindrome or not.
  b) Briefly explain various storage classes with their scope and persistent.   [4+4]

6.a) Explain how to declare, define and initialize pointers in C with an example program.
  b) Write down the advantages and disadvantages of arrays.   [4+4]

OR

7. What is a dynamic array? Explain how to create and process a dynamic array with an example program.   [8]

8.   Explain the general format for declaring and accessing members of a structure with an example C program for generating grades of students in a class.   [8]

OR

9.a)   How to create and initialize arrays of structures in C? Illustrate with an example.
  b)   Discuss about various string manipulation functions available in C.   [4+4]

10.   Describe the following functions in C:
      a) fread( )   b) fwrite( )   c) fseek( )   [8]

OR

11.a) Write a C program that prints a specified number of records from the beginning of a file.
  b)   Write down the merits and demerits of text files over binary files.   [4+4]

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