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**R13** 

## Code No:811AC

# JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, April/May - 2019 **COMPUTER PROGRAMMING** Max.Marks:60

## Time: 3hrs

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

# $5 \times 4$ 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

 $5 \times 8$  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]		
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3.a)	What is an unsigned integer constant? What is the significance of declaring a c unsigned?	constant as		
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]		
	S 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]

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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:<br/>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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