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Code No: 811AC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, January - 2020 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

 $5 \times 4 \text{ Marks} = 20$

Discuss about the features of procedure oriented programming languages.
Describe any five preprocessor directives in C with examples.
What is the role of pointers in inter function communication?
What is a structure? How to define and declare a structure in C?
What are the various types of files supported in C?

PART - B

 $5 \times 8 \text{ Marks} = 40$

- 2.a) What is an operator? Describe precedence of various operators in C and their associativity.
 - b) What is type conversion? Explain implicit and explicit type conversions in C with suitable examples. [3+5]

OR

- 3.a) Evaluate the following expression in C with the values P=5, Q=20, R=15 P + (Q*R/P)*P + Q*R
 - b) Enumerate all the bitwise operators in C with example.

[5+3]

- 4.a) Demonstrate break and continue statements with suitable examples.
 - b) Write a C program to find factorial of given number using recursive functions. [5+3]

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- 5.a) Explain about various storage classes in C with suitable examples.
 - b) Demonstrate all the iterative statements in C with examples.

[4+4]

- 6.a) Define an Array. What are the advantages of Arrays? How to declare and initialize string values using arrays in C?
 - b) Write a C program for addition of two matrices.

[4+4]

OR

- 7.a) How to pass an array to a function? Explain with an example program.
 - b) What is pointer to pointers? Give syntax and an example.

[5+3]



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[4+4]

8.a)	How to define union in C? Differentiate between unions and structures.	
b)	Explain about any five String built-in functions with syntax and examples.	[4+4]
	OR	
9.	Write a C program to read 3 student details such as Htno, name, marks in 5 subjections.	cts and
	calculate and display total and average marks of each student.	[8]
10.a)	Write syntax and examples for getc(), fgetc(), putc() and fputc() functions.	
b)	Write a C program to reverse the content of given file using fseek() function.	[3+5]
	OR	
11 a)	Differentiate between sequential access files and random access files	

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b) Write a C program to concatenate the contents of two files into another file.

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