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[5+3]

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  $5 \times 4$  Marks = 20 Discuss about the features of procedure oriented programming languages. 1.a) [4] Describe any five preprocessor directives in C with examples. b) [4] What is the role of pointers in inter function communication? c) [4] What is a structure? How to define and declare a structure in C? d) [4] e) What are the various types of files supported in C? [4] PART - B  $5 \times 8 \text{ Marks} = 40$ What is an operator? Describe precedence of various operators in C and their 2.a) associativity. What is type conversion? Explain implicit and explicit type conversions in C with suitable examples. [3+5] OR Evaluate the following expression in C with the values P=5, Q=20, R=15 3.a) P + (Q\*R/P)\*P + Q\*REnumerate all the bitwise operators in C with example. [5+3] Demonstrate break and continue statements with suitable examples. 4.a) Write a C program to find factorial of given number using recursive functions. b) [5+3]Explain about various storage classes in C with suitable examples. 5.a) Demonstrate all the iterative statements in C with examples. [4+4] b) 6.a) Define an Array. What are the advantages of Arrays? How to declare and initialize string values using arrays in C? Write a C program for addition of two matrices. b) [4+4]How to pass an array to a function? Explain with an example program.

7.a)

b)

What is pointer to pointers? Give syntax and an example.



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8.a)	How to define union in C	Differentiate between	unions and structures.
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Explain about any five String built-in functions with syntax and examples. [4+4]

## OR

- Write a C program to read 3 student details such as Htno, name, marks in 5 subjects 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.
  - b) Write a C program to concatenate the contents of two files into another file. [4+4]

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