Code No: 841AC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, January - 2020 COMPUTER PROGRAMMING USING C Max.Marks:75

Time: 3hrs

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Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

5×5 Marks = 25

Discuss about the features of procedure oriented programming languages. 1.a) [5] [5] b) Describe any five preprocessor directives in C with examples. What is the role of pointers in inter function communication? [5] c) What is a structure? How to define and declare a structure in C? d) [5] What are the various types of files supported in C? e) [5]

PART - B

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 b) suitable examples. [4+6]
 - OR
- Evaluate the following expression in C with the values P=5, Q=20, R=15 3.a) $P + (Q^{*}R/P)^{*}P + Q^{*}R$ [6+4]
- Enumerate all the bitwise operators in C with example. b)
- 4.a) Demonstrate break and continue statements with suitable examples.
- Write a C program to find factorial of given number using recursive functions. b) [6+4]OR
- 5.a) Explain about various storage classes in C with suitable examples.
- Demonstrate all the iterative statements in C with examples. [5+5] 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) [5+5]

OR

- How to pass an array to a function? Explain with an example program. 7.a)
- What is pointer to pointers? Give syntax and an example. [6+4] b)





5 × 10 Marks = 50



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- 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. [5+5] OR
 9. Write a C program to read 3 student details such as Htno, name, marks in 5 subjects and calculate & display total and average marks of each student. [10]
 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. [4+6]
 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. [5+5]

