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Code No: 821AC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA I Semester Examinations, June/July - 2018 COMPUTER PROGRAMMING USING C

Time: 3hrs

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

1.a) Explain different types of computer languages briefly. [5] b) What is a function? Why do we use functions in 'C' language? Give an example. [5] c) How to declare and initialize a multi dimensional array? [5] d) What are the different type castings supported in C? [5] e) Explain about positioning functions with example. [5]

PART - B

Write a C program to find the maximum of 3 numbers using conditional operators. 2.a) Draw a flow chart to find average of 10 numbers. b) [5+5] OR What is associativity? Illustrate its application in expression evaluation. 3.a) Discuss about the various bitwise operators supported by Language 'C'. b) [5+5]Write a C program to find factorial of a given number 'N' by using iteration and recursion 4.a) separately. Explain inter function communication with a C-program. b) [5+5] OR 5.a) Define statement. Explain different types of selection statements with examples. Compare the 'break' and 'goto' statements with example. b) [5+5]Write a 'C' program to search for an element by using Linear Search. 6.a) Discuss the applications of arrays. b) [5+5] OR Explain pointer arithmetic with a sample C-program 7.a) Write a program to accept a set of names and display them by using array of pointers. b) [5+5]

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5×5 Marks = 25

5 × 10 Marks = 50

Max.Marks:75

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[5+5]

[5+5]

- 8.a) Write a C program that implements string concatenate operation *STRCAT* (str1, str2) that combines a string *str1* to another string *str2* without using library function.
- b) Give an example for nested structure.
- 9.a) Create a structure called **student** and the members of the structure are Stu_Name,Stu_Rno, M1, M2, M3. Create a **pointer variable** for the structure, store the values and fetch the values present in the structure student.
- b) In what way a Union differs from structures. [5+5]
- 10.a) What is meant by state of a file? Discuss about file status functions.
 - b) Write a 'C' program to count the number of words, white spaces and tab spaces present in a file. [5+5]

OR

- 11.a) Explain the file input and output functions with example programs.
 - b) Distinguish between r, r+ and w, w+ modes of files.

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