Code No: 821AC **R15**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA I Semester Examinations, August - 2017
COMPUTER PROGRAMMING USING C

Time: 3hrs **Max.Marks:75**

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

1.a) Write a overview on computing environments. [5]
b) Write a sample program on break statement. [5]
c) What is an array? Explain how array is initialized? [5]
d) Write an example program on unions. [5]
e) Explain different file input, output functions. [5]

PART - B

5 × 10 Marks = 50

2.a) Explain the process of creating and running programs.
b) Explain the different types of bitwise operators used in C. [5+5]

OR

3.a) Explain Operator Precedence with an example.
b) Explain the structure of C program. [5+5]

4. Define loop. Explain various loop statements available in C with examples. [10]

OR

5.a) Explain different ways of writing functions.
b) What is recursion? What are the limitations of recursion? [5+5]

6.a) Write a program to print the largest and smallest elements in an in a array.
b) How do you initialize two dimensional array? How do you pass on two dimensional array as argument to a function. [5+5]

OR

7.a) What is the importance of pointers in C language and explain pointer arithmetic.
b) Write a program for arrays of pointers. [5+5]

8.a) Explain string functions with examples.
b) Write a program to find the length of a given string. [5+5]

OR

9.a) What is the enumeration data type? List down the conditions for using enumeration data type in a program.
b) Write a program for arrays of structures. [5+5]

10.a) Write a program to understand the use of gets function.
b) Distinguish between text and binary files. [5+5]

OR

11. Explain the following:
a) Error handling b) Streams [5+5]