

Code No: 821AC

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]