

**R17****Code No: 841AC****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****MCA I Semester Examinations, June/July - 2018****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) What are the different data-types in C? [5]
- b) List out some mathematical functions. [5]
- c) What are advantages and disadvantages of pointers? [5]
- d) What is data conversion? [5]
- e) Write about method for opening a file. [5]

PART - B**5 × 10 Marks = 50**

- 2.a) Discuss about computer systems.
 - b) Explain the procedure to create and run the programs. [5+5]
- OR**
- 3.a) Discuss about C tokens.
 - b) Explain operator precedence. [5+5]
- 4.a) Differentiate between While and Do-While.
 - b) Compare goto, break, continue. [5+5]
- OR**
- 5.a) What is recursion? Explain with an example program.
 - b) What are storage classes? [5+5]
- 6.a) How do you initialize 2-dimensional array? How do you pass on 2-dimensional array as argument to a function?
 - b) Explain array of pointers. [5+5]
- OR**
- 7.a) Explain passing array as an argument to a function.
 - b) Write a C program to print the smallest and largest elements in an array. [5+5]
- 8.a) What is the enumerated data-type? List down the conditions for using enumerated data-type in a program.
 - b) Write a C program to sort strings. [5+5]

OR

- 9.a) Explain structure initialization and array of structures. [5+5]
b) What are command-line arguments?
- 10.a) What is a file management? What are the modes of opening a file? [5+5]
b) Explain different ways of accessing files.
- OR**
- 11.a) Explain different file input, output functions.
b) Write a program to create a file to store and retrieve strings using `fputs()` and `fgets()`. [5+5]

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