

R16

Code No: 132AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B.Tech I Year II Semester Examinations, August/September - 2017****COMPUTER PROGRAMMING IN C****(Common to EEE, ECE, CSE, EIE, IT)****Time: 3 hours****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**(25 Marks)**

- 1.a) Give the decimal equivalent of $7AC_{(16)}$. [2]
- b) What is ternary operator in C? Give example expression for its use. [3]
- c) List the advantages of functions. [2]
- d) How to declare and initialize a multi dimensional array? [3]
- e) What is the purpose of pointers? [2]
- f) List the input/output functions for strings. [3]
- g) What are the different type castings supported in C? [2]
- h) Give an example for nested structure. [3]
- i) Contrast fread and fscanf functions. [2]
- j) What is meant by opening a data file? How is this accomplished? [3]

PART-B**(50 Marks)**

- 2.a) Why is C language known as middle-level language? [5+5]
 - b) Draw a flow chart to find average of 10 numbers. [5+5]
- OR**
- 3.a) What is associativity? Illustrate its application in expression evaluation. [5+5]
 - b) Which statement is a multi way selection statement? Why? [5+5]
4. What is the difference between actual and formal parameters? With illustrative examples explain parameter passing techniques. [10]
- OR**
- 5.a) Write a recursive function to print Fibonacci sequence. [5+5]
 - b) Discuss the applications of arrays. [5+5]
- 6.a) How to declare a pointer to a function? What is its use? [5+5]
 - b) What is the difference between calloc and malloc functions? [5+5]
- OR**
- 7.a) Write a program to display the location of a character 'T' in a given string. [5+5]
 - b) Give the signatures of getch, puts functions. [5+5]

- 8.a) Differentiate between structure and union? Give an example usage.
b) What is the benefit of bitfield usage? [5+5]
- OR**
9. Write a program using structures to search a name in a record of ten mobile subscribers and print the name, address, bill number and amount of the searched record. [10]
10. Write a program to copy contents of one file to another using file names passed as the command line arguments. [10]
- OR**
- 11.a) What are the modes in which files can be opened?
b) Write a program to store students information (id, name, address, marks) into a file and print the information from the file. [5+5]

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