R15

Code No: 821AC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA I Semester Examinations, January - 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) Write a program to convert the Fahrenheit into degree Celsius. [5]
  b) Explain the recursive function with an example and also give its limitations. [5]
  c) Explain the drawbacks of pointers in detail. [5]
  d) Explain the functions of read and write characters. [5]
  e) Explain about the rewind ( ) with an example. [5]

PART - B

                                                        5 × 10 Marks = 50

2. Explain the classification of computer software. [10]

OR

3. Explain the different types of operators are used in C. [10]

4. Explain about user defined functions and inter function communication. [10]

OR

5. a) Write a program to find the GCD of given numbers by using functions.
  b) Explain the type qualifier with an example. [5+5]

6. Write a program to read a matrix and displays sum of the elements below the main diagonal. [10]

OR

7.a) Explain the pointers for inter function communication
  b) What is an array? Explain how is an array represented in memory. [5+5]

8. Write a program to read and display the information of all the students in the class. Then edit the details of the ith student and redisplay the entire information by using structures. [10]

OR

9. Write a program that uses a structure called date that has is passed to an is LeapYear function to determine if the year is a leap year. [10]

10. Explain the different types of File modes in C. [10]

OR

11. Write a program to compare two files to check whether they are identical or not. [10]

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