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R-15

Code: 5P2B12

M.C.A. I Semester Supplementary Examinations June 2019

Computer Programming

Max. Marks: 60

Time: 3 Hours

Answer all five units by choosing one question from each unit (5 x 12 = 60 Marks)

UNIT-I

1. Discuss the advantages of algorithms and flowcharts. Develop a flowchart for finding largest of the given 3 elements. 12M

OR

2. a) What are Control Structures in c language? Explain different types of control structures? 6M
b) What are arrays? Differentiate between single dimensional and multi-dimensional arrays with a suitable example? 6M

UNIT-II

3. a) Define C string. Discuss in detail about standard string manipulation functions. 6M
b) Write a C program to check whether the given string is palindrome or not? 6M

OR

4. a) What are Functions? Explain the advantages of using functions? 6M
b) Differentiate between call by value and call by reference. Demonstrate the difference by writing two functions to swap two elements. 6M

UNIT-III

5. a) What is Object Oriented Programming Paradigm? Explain the characteristics of Object oriented Programming paradigm? 6M
b) Draw and Explain basic structure of C++ program? 6M

OR

6. What are Constructors and Destructors? Explain the properties of a Constructor? 12M

UNIT-IV

7. a) Explain function overloading and overriding concepts of C++ with a suitable example? 6M
b) Explain static binding and early binding? 6M

OR

8. a) Explain about class templates with example program. 6M
b) What is inheritance? Explain any three types of inheritance with example program. 6M

UNIT-V

9. a) Explain C++ Stream Classes and Hierarchy 6M
b) Write a Simple CPP program for read and write a file 6M

OR

10. a) Explain Exception handling model in C++ 7M
b) Explain various file operations in C++ 5M
