

Hall Ticket Number :

R-15

Code: 5P2B12

M.C.A. I Semester Supplementary Examinations October 2020

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. a) Explain the steps involved in creating and executing the c program. 6M
- b) Write a C program to find total and average of marks of 5 subjects for 5 students. 6M

OR

- 2. a) Discuss operator precedence and associativity in C. 6M
- b) Differentiate between while loop and do-while loop. Explain them with examples. 6M

UNIT-II

- 3. a) Write a C program to swap the elements using pointers and functions. 6M
- b) What is a FILE? Explain the formatted input and output functions and give examples 6M

OR

- 4. a) Differentiate between a structure and union with respective allocation of memory by the compiler. Given an example of each. 6M
- b) Define Structures. Explain with an example how structure members are initialized and accessed 6M

UNIT-III

- 5. a) Define constructors and destructors. Give the properties of constructors. 8M
- b) Write a C++ program to implement constructor overloading. 4M

OR

- 6. a) What are the static class members? Explain each in detail. 6M
- b) How access control is provided in C++. 6M

UNIT-IV

- 7. a) Differentiate between function overloading and function overriding. 6M
- b) Explain about Class template with suitable example program. 6M

OR

- 8. a) What is abstract class explain with an example. 6M
- b) Explain different types of inheritance with suitable example. 6M

UNIT-V

- 9. Identify the purpose of operator overloading and demonstrate operator overloading for Unary operator. 12M

OR

- 10. a) What is an Exception? Explain about throwing an exception. 6M
- b) Explain Exception handling mechanism using multiple catch blocks. 6M
