**TDC (CBCS) Even Semester Exam., 2024**

# COMPUTER APPLICATION

**( 2nd Semester )**

Course No. : CACCC–201T

**( Introduction to Programming )**

*Full Marks* : 50
*Pass Marks* : 20

*Time* : 3 hours

*The figures in the margin indicate full marks for the questions*



## UNIT—I

**1.** Answer any *two* from the following questions : 2×2=4

*(a)* What do you mean by a variable?

*(b)* What is data type?

*(c)* Why are header files necessary in C++ programs?

**2.** Answer any *one* from the following questions :

*(a)* *(i)* Write down the steps of executing a program in C++. 3

*(ii)* Describe the different types of operators. 3

*(b)* *(i)* What is keyword? Write down the purpose of any six keywords. 1+3=4

*(ii)* Explain the different data types available in C++. 2

UNIT—II

**3.** Answer any *two* from the following questions : 2×2=4

*(a)* What is exit-controlled loop?

*(b)* What is a nested-loop?

*(c)* Write down the difference between break and exit ().

**4.** Answer any *one* from the following questions :

*(a)* *(i)* Write a C++ program to find the greatest number among three numbers. 4

*(ii)* Explain the different types of loops. 2





*(b)* *(i)* Write a C++ program using while loop to display the even numbers from 1 to 50. 3

*(ii)* Explain switch case statement with example.

UNIT—III

**5.** Answer any *two* from the following questions : 2×2=4

*(a)* What is command line argument?

*(b)* What are actual and formal arguments?

*(c)* Write down the purpose of strcpy () function.

**6.** Answer any *one* from the following questions :

*(a)* *(i)* Write a C++ program to find the average of five numbers. 3

*(ii)* How can 2D arrays be declared and initialized? Give example. 3

*(b)* *(i)* What are call by value and call by reference? Give example. 3

*(ii)* How are strings represented in C++? 3

UNIT—IV

**7.** Answer any *two* from the following questions : 2×2=4

*(a)* What is a file?

*(b)* Write down the purpose of 'ifstream'.

*(c)* What is a preprocessor?

**8.** Answer any *one* from the following questions :

*(a)* *(i)* Explain structure in detail. 3

*(ii)* How can structures be passed and returned from functions? 3

*(b)* *(i)* Explain how we can take union as a member of a structure. 3

*(ii)* Explain the different functions for manipulations of file painters. 3

UNIT—V

**9.** Answer any *two* from the following questions : 2×2=4

*(a)* What is the importance of constructor?

*(b)* Write down the properties of friend function.

*(c)* What is access specifier?





**10.** Answer any *one* from the following questions :

*(a)* *(i)* Explain how member functions are declared in a C++ program. 3

*(ii)* Explain parameterized constructor with example. 3

*(b)* *(i)* Explain various types of inheritance. 3

*(ii)* Explain constructor overloading with example. 3

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