

TERM TEST (2023-2024)

Bachelor of Computer Application (Second semester)

Code: CSA5007T

Subject: Object Oriented Programming with C++

Time – 3 Hours, Max Marks – 70

Section A consists of 10 questions, two from each unit carrying 2 marks each. Total marks are 20.

Section B consists of total five questions (one from each unit with internal choice). Each question is of 10 marks. Total marks are 50.

Section A

- Q1. What are the advantages of function prototype in C++
- Q2. State whether the following statement is **true** or **false**
When arguments are passed by value, the called function works with the original arguments in the calling function
- Q3. Write format of defining a class
- Q4. What are the various visibility modes in a class ✓
- Q5. What do you mean by function overloading.
- Q6. What are various modes of visibility in inheritance ✓
- Q7. Can private members of a base class be inherited in derived class
- Q8. State whether the following statement is **true** or **false**
A destructor never takes any argument.
- Q9. Write the output of the following code segment

```
m=10;
y=m--;
cout<<"m = "<<m<<"y = "<<y;
```

- Q10. Write the output of the following code segment

```
int a = 14;
int b = 4;
cout<< a/b;
```

PTO

Section B

Q11. What is the difference between calling a function by value and by reference

OR

Write the format of defining derived class.

Q12. Write a program in C++ to read a matrix of size m x n from the keyboard

OR

What is the output of the following code

```
main()
{
    int interest(int p, int r, int t=5);
    int I;
    I = interest(100, 2, 10);
    cout<<"I = "<<I;
}

int interest(int x, int y, int z)
{
    return(x*y*z/100);
}
```

Q13. Explain how the compiler decides which function is to be called in case of function overloading

OR

What is friend function.

Q14. Describe the importance of destructor.

OR

Write short note on file handling

Q15. Explain operator overloading.

OR

Write the various categories of inheritance.