BACHELOR OF COMPUTER APPLICATION Third Semester OBJECT ORIENTED PROGRAMMING WITH C++ (BCA - 301)

Duration: 20 minutes

(PART A - Objective Type)

I. Choose the correct answer:

- 1. Which of the following is the lifetime of a static variable?
 - a. Function b. Class
 - c. Entire program d. All files
- 2. In the declaration class Test { int x; }; x is which type of member?
 a. Public
 b. Private
 - c. Protected d. Any of these
- 3. A constructor is executed when
 a. An object is created
 b. An object is used
 c. A class is declared
 d. An object goes out of scope
- 4. Choose the operator which can be overloadeda. :: b. . c. .* d. None of these
- 5. With Friend function implementation, binary operators take how many explicit parameters? a. 0 b. 1 c. 2 d. 3
- 6. A class can have how many number of Destructors? a. 1 b. 2 c. 3 d. Any

II. State true or false:

- 1. In public inheritance, the object of the derived class can access the public member function of the derived class.
- 2. If both the derived and base class has constructors, the base class constructor is executed first.
- 3. A pointer to a base class cannot be made to point objects of derived class.
- 4. "This" pointer is not a part of the object itself.
- 5. A constructor that accepts no parameter is known as the default constructor.

III. Fill up the blanks:

1. cout is defined in class.

2016/12

1×6=6

Marks - 20

 $1 \times 5 = 5$

1×5=5

2. The technique of creating a new class from an existing class is called 3. When a protected member is inherited in public mode, it becomes a member in the derived class. 4. Static data members are automatically initialized to is the first6 member function to be executed when an object of that class 5. is created.

IV. Find out the outputs of the following codes:

 $1 \times 4 = 4$

```
1. Class sample
   { public:
```

```
Sample()
        { initialize();
        Cout <<"\n CONSTRUCTOR";
        }
        Void initialize()
        { show str();
        Cout << "\n FUNCTION INITIALIZE";
        Void show str()
        { cout<<"\n HI"
        }
Main()
   sample s;
```

```
{
)
```

};

Answer:

```
2. Class Test
   { public:
```

Private: Static int count; Public: Static void show data() { Cout<< count++; }

```
Main()
{ Test T;
T.show data();
}
```

Answer:

};

```
3. Class sample
        int a=10;
    {
       Char ch;
         Public:
                 Void set data(char c)
                 { ch=c; }
                 Void show data()
                 \{ cout << \overline{a} << "," << ch; \}
   };
   Main()
   {sample S;
   S.set data('A');
   S.show data();
    }
   Answer:
4. Class Indiabix
   { staticint x;
     Public:
            Static void setdata(int xx)
                x=xx;
            {
            Static void display()
               cout<<x;
            {
   };
   IntIndiabix::x=0;
   Main()
   { Indiabix::setdata(44);
   Indiabix::display();
   }
   Answer:
```
