



**JAG-003-1033002**

Seat No. \_\_\_\_\_

**B. C. A. (Sem. III) (CBCS) (W.E.F. 2016)**

**Examination**

**November - 2019**

**CS-14 : C++ & Object Oriented Programming**

*(New Course)*

**Faculty Code : 003**

**Subject Code : 1033002**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

- Instructions :**
- (1) There are 5 Questions in paper all are 14 marks.
  - (2) All are compulsory.
  - (3) Give answer of all questions in main answer sheet.
  - (4) Mention your options clearly.

- 1**
- (a) Attempt following objective question : **4**
    - (1) Wrapping up of data and function together is known as \_\_\_\_\_.
    - (2) When C++ was released ?
    - (3) Give name and symbol of output operator.
    - (4) Full Form of OOP.
  - (b) Answer in brief : (any **one**) **2**
    - (1) Explain scope resolution operator.
    - (2) Explain manipulator.
  - (c) Answer in details : (any **one**) **3**
    - (1) Explain control statement with example.
    - (2) Explain call by reference with example.
  - (d) Write a note on following : (any **one**) **5**
    - (1) What is OOP ? Explain basic concept of OOP.
    - (2) Explain user define Data type in C++.

- 2 (a) Attempt following objective question : 4
- (1) A class is \_\_\_\_\_ Data type.
  - (2) The member function inside the body of the class is automatically become.
  - (3) Friend function can access any private member (true / false).
  - (4) Full Name : MIL
- (b) Answer in brief : (any one) 2
- (1) Explain static member in class.
  - (2) What is local class ?
- (c) Answer in details : (any one) 3
- (1) Explain friend function with example.
  - (2) What is class ? Explain data member and member function accessing in class.
- (d) Write a note on following : (any one) 5
- (1) What is constructor ? Explain with Example.
  - (2) Explain array within class with example.
- 3 (a) Attempt following objective question : 4
- (1) class C : public A, public B is example of \_\_\_\_\_.
  - (2) When class is derived from more than one from of inheritance then it called \_\_\_\_\_.
  - (3) \_\_\_\_\_ keyword is used in multipath inheritance to avoid ambiguity.
  - (4) Inheritance is the concept of \_\_\_\_\_.
- (b) Answer in brief : (any one) 2
- (1) Definition : Operator Overloading.
  - (2) Definition : Operator Overriding.
- (c) Answer in details : (any one) 3
- (1) What is conversation ? Explain any one type conversation.
  - (2) Explain How to pass parameter in parent class constructor in inheritance.

(d) Write a note on following : (any one) 5

(1) What is inheritance ? Explain multilevel inheritance with example.

(2) Explain unary operator overloading with friend function.

4 (a) Attempt following objective question : 4

(1) Which type of class cannot be created any instance?

(2) Full name : RTTI

(3) What is the output ?

```
void main( )  
{  
    char *s2="krishty";  
    char *s1="patel";  
    strcat(s1,s2);  
    cout<<s1;  
}
```

(4) The base class for most stream classes is the \_\_\_\_\_ class.

(b) Answer in brief : (any one) 2

(1) Explain put( ) and write( )

(2) Explain getline( ) function.

(c) Answer in details : (any one) 3

(1) Explain command line argument.

(2) Explain virtual function with Example.

(d) Write a note on following : (any one) 5

(1) Explain C++ stream classes.

(2) Explain polymorphism.

- 5 (a) Attempt following objective question : 4
- (1) The \_\_\_\_\_ mode is used to open a file for reading.
  - (2) Full name : STL.
  - (3) \_\_\_\_\_ function return true if operation is successful in file without any error.
  - (4) Which block is received the error information in exception handling ?
- (b) Answer in brief : (any one) 2
- (1) Explain seekg( ).
  - (2) Explain seekp( ).
- (c) Answer in details : (any one) 3
- (1) Explain function template with example.
  - (2) Explain file stream classes.
- (d) Write a note on following : (any one) 5
- (1) What is exception handling ? Explain it.
  - (2) Explain File mode in details.
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