



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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