



**PBB-003-1033002**

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

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

**November / December - 2018**

**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 the paper of 14 marks each.
  - (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) What are keywords?
  - (2) C++ is an "object oriented" programming language created by \_\_\_\_\_.
  - (3) Give name and symbol of Input operator.
  - (4) Write how to declare user define function.
- (b) Answer in brief : (any **one**) 2
- (1) Explain scope resolution operator.
  - (2) Explain memory management operator.
- (c) Answer in detail : (any **one**) 3
- (1) Explain inline function with example.
  - (2) Explain function overloading with example.
- (d) Write a note on following : (any **one**) 5
- (1) Explain Data type in details.
  - (2) What is OOP? Explain basic concept of OOP.

- 2 (a) Attempt following objective question : 4
- (1) Full Name: MIL
  - (2) The variable declared inside a class are known as \_\_\_\_\_.
  - (3) When declare member as static in class?
  - (4) Give the definition: Nested class.
- (b) Answer in brief : (any **one**) 2
- (1) Explain private member function in class.
  - (2) What is class ?
- (c) Answer in detail : (any **one**) 3
- (1) Explain static data member in class with example.
  - (2) Explain friend function with example.
- (d) Write a note on following : (any **one**) 5
- (1) Difference between constructor and destructor.
  - (2) Explain return object in function with example.
- 3 (a) Attempt following objective question : 4
- (1) List type of inheritances.
  - (2) List of access specifier.
  - (3) When a class is derived from only one class then it called \_\_\_\_\_.
  - (4) \_\_\_\_\_ operator operates on one operand.
- (b) Answer in brief : (any **one**) 2
- (1) Container ship V/s Inheritance.
  - (2) What is \*this pointer ?
- (c) Answer in detail : (any **one**) 3
- (1) Explain class to class type conversation.
  - (2) Explain constructor in derived class.
- (d) Write a note on following : (any **one**) 5
- (1) Explain Binary operator overloading with friend function.
  - (2) What is inheritance? Explain multipath inheritance with example.

- 4 (a) Attempt following objective question : 4
- (1) Full name: RTTI
  - (2) Write flag value of ios:: adjusted bit field.
  - (3) What is the output ?  

```
void main( )
{
    char*s1="krishty patel";
    int a=strlen(s1) - 8;
    cout.write(s1, a);
}
```
  - (4) When use of manipulators which header file is included ?
- (b) Answer in brief : (any **one**) 2
- (1) Explain get( ) and getline( ).
  - (2) Explain setf( ) function.
- (c) Answer in detail : (any **one**) 3
- (1) Explain polymorphism.
  - (2) What is virtual function ? Write rule for the virtual function.
- (d) Write a note on following : (any **one**) 5
- (1) Explain C++ stream classes.
  - (2) Explain pointer to derived class with example.
- 5 (a) Attempt following objective question : 4
- (1) Exception is an abnormal condition that arises at \_\_\_\_\_.
  - (2) Full name : STL
  - (3) The STL was created by \_\_\_\_\_ and \_\_\_\_\_.
  - (4) Which block is received the error information in exception handling ?

- (b) Answer in brief : (any **one**) **2**
- (1) Explain iterators.
  - (2) Explain vector.
- (c) Answer in detail : (any **one**) **3**
- (1) Explain file stream classes.
  - (2) Explain seekg( ), seekp( ), tellg( )
- (d) Write a note on following : (any **one**) **5**
- (1) Explain function template with example.
  - (2) What is exception handling ? Explain it.
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