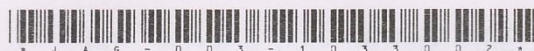# SHREE H. N. SHUKLA COLLEGE OF I.T. & MGMT.
(AFFILIATED TO SAURASHTRA UNIVERSITY)

2 – Vaishalinagar
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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++.

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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.

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(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 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.

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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.

—————