



RAN - 1911040102010001

RAN-1911040102010001**MCA (Semester-II) Examination****March / April - 2019****Paper : 201 : Object Oriented Programming Methodology
(Old and New)****Time: 3 Hours]****[Total Marks: 70****સૂચના : / Instructions**

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

☛ **MCA (Semester-II)**

Name of the Subject :

☛ **Paper : 201 : Object Oriented Programming Methodology**Subject Code No.: **1911040102010001**

Seat No.:

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Student's Signature

Q1: Attempt any THREE.**[18]**

- Explain specialization and generalization with proper example.
- What is a stream? Explain meaning and usage of predefined streams 'cout' and 'cin' in C++ with example.
- Explain template class in C++ with example. Discuss significance of template class.
- Discuss scope of variables in C++.

Q2: Attempt any THREE.**[18]**

- Explain usage of 'this' pointer with example.
- What is multiple-inheritance? Discuss- Why virtual classes are used for multiple inheritance?
- Explain data encapsulation with suitable example.
- Explain – how can we restrict a member inheritance in C++?

Q3: Attempt any THREE.**[18]**

- What is inline function? Give proper example to explain advantage of inline function over normal function.
- Write a 'String' class in C++ with overloaded '+' operator to concatenate two strings.
- What is use case diagram? How use case diagrams are useful for object-oriented design?
- Write a C++ program to copy contents of one file to another.

RAN-1911040102010001]**[1]****[P.T.O.]****P0590**

Q4: Attempt any **TWO**.

[16]

- A) Define constructor and Destructors. Explain with example – order of Constructor call in case of Inheritance in C++.
 - B) Explain - how exception handing helps to manage application error runtime?
 - C) Explain compile time polymorphism with example.
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