



RAN - 1911000103050001

RAN-1911000103050001**B.C.A (Sem. - III) Examination****October / November - 2019****305-Object Oriented Programming****Time: 3 Hours]****[Total Marks: 70****સૂચના : / Instructions****(1)**

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

Name of the Examination:

B.C.A (Sem. - III)

Name of the Subject :

305-Object Oriented Programming

Subject Code No.: 1911000103050001

Seat No.:

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Student's Signature

- 2) All questions are compulsory.
- 3) Figures to the right indicate full marks.

Q1 Answer in short**10**

- 1 List the operators which cannot be overloaded.
- 2 What is the use of 'this' pointer?
- 3 What is the use of 'Protected' over 'Private' modifier? ;
- 4 State the difference between ios::in and ios::out.
- 5 What is containership?
- 6 What is the use of 'new' operator.
- 7 List out the operator which cannot be overloaded using member function
- 8 What is the use of tellg() and tellp() in file handling.
- 9 What is the use of scope resolution operator.
- 10 What is the use of destructor and when it is called?

- Q2 Do as directed 15**
- (A) Explain any three concepts of Object oriented programming in detail. 8
- (B) Explain the procedure to handle the exceptions 7
- OR**
- (A) What is Inheritance? Explain different types of inheritance in brief 8
- (B) Explain copy constructor with proper example. 7
- Q3 Answer the following (Any Two) 15**
- (A) Write note on data abstraction and encapsulation.
- (B) What is the use of friend function? Write all rules with example.
- (C) Explain the use of static data members and static functions with example.
- Q4 Answer the following (Any Two) 15**
- (A) Explain different methods of opening a file during file handling.
- (B) Write down the syntax for user defined manipulators. Write a single manipulator to provide the following output numeric values :
- (i) 12 column width
 - (ii) 2 digit precision
 - (iii) Left alignment
 - (iv) Filling unused spaces with ‘*’
 - (v) Display value in internal representation
- (C) What is dynamic binding? Explain it with proper example.
- Q5 Do as directed (Any Two) 15**
- (A) Write a menu driven program in C++ to create a class “Emp” containing member variables like eno, name and salary and perform following action:
1. Save data into the file
 2. Retrieve data from the file
 3. Give increment to employee who has salary > 10000.

- (B) Create a class Hospital which holds data members like (Patient_id, Patient name, Doctor name, Room_no, Bed_no). Write a operator function '+' when patient admits and operator function '-' when patient discharge.
- (C) Create two class Kilometer & Meter to support following type conversion. Perform k=m which converts meter to kilometer. Write a program to carry out this conversion operation.
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