

ME-3734

Second Year B. C. A. (Sem. III) Examination October / November - 2013

305 : Object Oriented Programming

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Time: 3 Hours]	[Total Marks: 70
Instructions:	
(1)	~ ~ ~
નીચે દર્શાવેલ 🕳 નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of 👉 signs on your answer book. Name of the Examination :	Seat No.:
Second Year B. C. A. (Sem. 3)	
Name of the Subject :	72
◆ 305 : Object Oriented Programming	9
Subject Code No.: 3 7 3 4 Section No. (1, 2,) NIL	Student's Signature
(2) All questions are compulsory.	
(3) Figures to the right indicate full marks.	
1 Answer any seven:	14
(1) Explain each function for manipulation	of file pointers
(2) Define the read() and write() function	
binary file.	
(3) Which methods cannot call through an	object?
(4) How getline() works?	
(5) What is dynamic constructor?	
(6) What are the rules for Unary Operator	or Overloading
using friend?	d2
(7) When and how inline function can be	_
(8) How to print the trailing zeros using io	s function and
manipulators.	
2 Do as directed:	14
Explain pure virtual function? When it Explain rules of pure virtual function	15 necessary!
(b) Explain the execution of base class con multilevel and multiple Inheritance	astructors for

OR

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(a) In which circumstances function can be made friend? 7 Write the advantage of friend function. What do you mean by overloading of an operator? (b) How many arguments are needed for overloading unary operator and why? Answer the following: 3 14 What are the different methods to open a file? (a) 5 Explain with proper example. Explain the difference between call by value and (b) call by reference. (c) Explain exception handling. OR When we can we use virtual base class and how it is 3 (a) 5 different from virtual function. Explain static data and static member function (b) 5 with proper example. (c) How do the properties of following class differ? class D1: protected B, private C & class D2: private B, public C {} Do as directed: (any two) 14 Explain memory management operators. Point out (a) reason why using new is better than using malloc() (b) Explain constructor? What is the significance of dynamic constructor? Design the single manipulators to provide the following output specification for printing the float values (a) 11 column width (b) 2 digit precision (c) Left justified (d) Filling Unused space with '+' Display the trailing zeros & also + sign (e)

- 5 Answer the following: (any two)
 - (a) Define a class to represent a bank account for handling for 10 customers which consist of Name of depositor, account number, Type of account, Balance amount. Write a program to perform the following operations.
 - (1) To assign initial values
 - (2) Overload '+' operator to deposit an amount
 - (3) Overload '-' operator to withdraw amount (after checking minimum balance)
 - (4) To display all customer having balance >= 25,000
 - (b) Consider a class BCA which contain information about the entire student (rollno, name, semester, total mark and percentage). Transfer the records from this file to another file called SYBCA for the students having the semester field value 3 and display all the records in the file SYBCA
 - (c) Write a program that consists of two classes timel2 and time24. The first one maintenance time (hour and minute) on 12 hour basis, whereas the other one maintains it on 24 hours basis. Provide conversion functions to carry out the conversion from object of one type to another.

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