



RF-3723-24

**M. Sc. (Sem. II) (Bio-Informatics) (External)
Examination**

April / May – 2010

**205 : Object Oriented Programming &
Programming Methodology**

Time : 3 Hours]

[Total Marks : 70

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Instructions :

(1)

नीचे दृशावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लक्षवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
M. Sc. (Sem. 2) (Bio-informatics) (External)

Name of the Subject :
205 : Object Oriented Progra. & Progra. Methodology

Subject Code No. : **3 7 2 3** Section No. (1, 2,.....) : **1**

Seat No. :

Student's Signature

1 Answer in short (any seven):- 14

- (1) Define : Constructor.
- (2) Differentiate between objects and classes.
- (3) Give usage of protected modifier.
- (4) Define:- Operator overloading.
- (5) How do you initialize object at the time of declaration?
- (6) Define data hiding and polymorphism
- (7) Give usage of scope resolution operator.
- (8) Give benefits of function prototypes in C++
- (9) Give benefits of inheritance in C++.

2 (a) Attempt any one from the following:- 05

- (1) What is Encapsulation? Explain with example.
- (2) What is friend function? What are its uses? Give an example.

**(b) Explain how object oriented programming differ 06
from Procedural programming languages.**

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[Contd...

- 3 Answer the following questions : 10
(a) Write a note on virtual base class.

OR

- (a) Write a C++ program to overload unary-operator for integer numbers.
(b) Describe constructor overloading with proper example.

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(1)

<p>नीचे दशांश देव ✎ निशानोंवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of ✎ signs on your answer book.</p> <p>Name of the Examination : ✎ M. Sc. (Sem. 2) (Bio-informatics) (External)</p> <p>Name of the Subject : ✎ 205 : Object Oriented Progra. & Progra. Methodology</p> <p>✎ Subject Code No. : 3 7 2 4 ✎ Section No. (1, 2,.....) : 2</p>	<p>Seat No. : <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center; width: 100%;">Student's Signature</div>
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- 4 (a) Answer the following questions:- 10
(i) Explain the different ways for defining member functions.
(ii) Describe:- Effect of inheritance on the visibility of members.
(c) Explain static members of the class with example.
- (b) Explain parameterized constructors with proper example. 7
- 5 (a) Describe characteristics of the followings:- 8
(i) Friend functions
(ii) Constructors
- (b) List the forms of inheritance. Give the syntax of each type of inheritance. 6