



JA-3734

Second Year B. C. A. (Sem. III) Examination

March/April – 2013

305 : Object Oriented Programming

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दशावलि निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No.:
Name of the Examination :	
Second Year B. C. A. (Sem. 3)	
Name of the Subject :	
305 : Object Oriented Programming	
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
- (i) List types of inheritance.
 - (ii) What do you mean by pure virtual function ? When it is required ?
 - (iii) What is Constructor with default argument ?
 - (iv) What is the advantage of new over malloc () ?
 - (v) What is function overriding ?
 - (vi) Explain tellg() and seekp () .
 - (vii) What is Dynamic Binding ? Advantage of it.
 - (viii) Explain Visibility modes.
 - (ix) What is an Exception ?

- 2 Do as directed : 14
- (a) List out features of object oriented programming. 7
Explain any two of them.
 - (b) How many arguments are required in the definition of an overloaded unary operator ? Why ? 7

OR

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[Contd...

- 2 Do as directed : 14
- (a) What do you mean by overloading of an operator ? 7
Why it is necessary to overload an operator.
- (b) How do the properties of following two derived class differ ? 7
- (i) Class D1 : private B, public C {.....}
- (ii) Class D2 : Protected B, private C {.....}
- 3 Do as directed : 14
- (a) What is constructor ? Explain copy constructor and parameterized constructor. 7
- (b) What is containership ? How it differs from inheritance? 7
- OR**
- (b) List memory management operators. Explain them in brief. Why new is better than malloc () ? 7
- 4 Do as directed : 14
- (a) Differentiate between overloading and overriding. 7
Explain the concept of overriding with example.
- (b) What is inheritance ? Explain multiple and multilevel inheritance. 7
- OR**
- 4 Do as directed : 14
- (a) Write a note on data abstraction and encapsulation. 7
- (b) What is ambiguity in hybrid inheritance ? How ambiguity remove from Compile time ? Explain with example. 7
- 5 Answer any two : 14
- (a) Write down the syntax for user defined manipulators. Design a single manipulator to provide the following output specification to print float values in following format.
- (i) 8 column width
- (ii) 3 digit precision
- (iii) Right justified
- (iv) Filling unused spaces with '+'
- (b) Design two classes to support following type conversion.
Rupee R;
Dollar D;
D = R; Converts Rupee to dollar
Write a program to carry out this conversion
- (c) What is file mode ? Describe the various file mode options available.