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CS-72

BACHELOR OF COMPUTER APPLICATIONS (PRE-REVISED)

06682

Term-End Examination December, 2013

CS-72 : C++ AND OBJECT ORIENTED PROGRAMMING

Time: 2 hours Maximum M			arks : 60	
Not	qı	uestion number 1 is compulsory. Attempt any to uestions from the rest. All examples must be in congramming language only.		
1.	(a)	Write functions in C++ to copy, to concatenate and to find length of strings without using library functions.	6	
	(b)	List five basic characteristics of object oriented programming.	5	
	(c)	What is Inheritance? Describe single and multiple inheritance with the help of examples.	5	
	(d)	Differentiate between increment and decrement operator with the help of an example.	4	
	(e)	What are visual functions? Explain with the help of an example.	5	
	(f)	Describe the concept of bit wise operators in C++ with the help of an example.	5	

- 2. (a) What are Use Case Diagrams? What are 6 the notations used in these diagrams? Design a Use Case Diagram for the Admission Process in IGNOU. Describe Abstraction in the context of object (b) 4 oriented programming. 3. Explain features and advantages of C++. (a) 5 (b) What are Constructors and Destructors? 5 What is their relevance and utility? Explain with the help of an example. 4. Consider a class Reservation with data members 10 as Res-data, Res-no, Train - no, date-of-journey, no-of-passengers. Include member functions to accomplish the following: (a) Accept passenger details (b) Display passenger details (c) Display the details of reservation of a
 - (c) Display the details of reservation of a specific train.
 - (d) Display details of all Reservations for a specific date.
 - 5. (a) How are exceptions handled in C++? Write code to raise an exception for division by zero and write suitable code to deal with the exception.
 - (b) What are friend functions? Write a program that swaps two numbers using friend functions.

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