

KRISHNA KANTA HANDIQUI STATE OPEN UNIVERSITY
PGDCA/MCA/M Sc. IT 2nd Sem. Examination, 2015

Paper Code: 07

Paper : Object Oriented Programming Through C++

Time: 2 hours Maximum marks: 50

The figures in the margin indicate full marks for the questions

- 1 Answer any five questions from the following : $2 \times 5 = 10$
- What are the two characteristics of an object?
 - Name three essential characteristics of OOP.
 - Enlist the tokens of C++ language.
 - How can you declare an integer constant in C++?
 - Which are logical operators in C++? What are their functions?
 - Write the differences between while loop and do-while loop.
 - What are the four types of storage class specifiers?
- 2 Answer any three questions from the following : $4 \times 3 = 12$
- What is copy constructor? Write a simple program to show the use of copy constructor.
 - Explain the concept of abstract class. Give suitable example.
 - Define polymorphism. What do you mean by runtime and compile time polymorphism?
 - Explain static member functions with examples.
 - What is a virtual functions? Where and why is it required?
- 3 Answer any three questions from the following : $6 \times 3 = 18$
- Write a program in C++ to calculate the sum of the digits of a number.
 - Write a program in C++ to find the product of two matrices.
- What is function overloading? Write a C++ program to illustrate it.
 - Write short notes on the following (any two):
 - Destructors
 - Friend Function
 - Constructor with default arguments.
 - How will you resolve the problem of data ambiguity in multipath inheritance? Write a suitable program in support of your answer.
- 4 Answer any one question from the following : $10 \times 1 = 10$
- Write a program in C++ to demonstrate the concept of operator overloading.
 - What is inline member function? Write a C++ program to demonstrate it.
 - What are the basic types of inheritance? Write suitable program codes in C++ in support of your answer.