

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

M.Sc.(IT) (2015 Onwards) (Sem.-1)
OBJECT ORIENTED PROGRAMMING IN C++
Subject Code : MSIT-102
Paper ID : [72518]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students has to attempt any ONE question from each SECTION.
2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

1. a) Explain various looping statements of C++ with suitable examples. 5
b) What is the use of break, continue and goto statements? 5
2. a) Explain various data types of C++ with examples. 5
b) Explain characteristics of Object Oriented Programming. 5

SECTION-B

3. a) Explain the storage class specifiers available in C++ with examples. 5
b) What are pre-processor directives? What is their purpose? How can you use them? Explain. 5
4. a) Write a program using pointers to sort array elements in increasing order. 7
b) What is enumeration? Discuss with example. 3

SECTION-C

5.
 - a) What do you mean by Multiple Inheritance? Explain with the help of an example.
 - b) Explain various types of constructor with examples.
6.
 - a) What is a friend function? Explain its role with an example.
 - b) What are static data members? How these are declared and used? Discuss with example.

SECTION-D

7. What is polymorphism? Explain various methods of achieving polymorphic behavior in C++.
8.
 - a) What is an exception? How exceptions are handled in C++? Explain with the help of a suitable example.
 - b) How you can open and close a file in C++?

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SECTION-E

9. **Write briefly :**
 - 1) What is a destructor? How it is defined?
 - 2) How you can declare constants? Give examples.
 - 3) What is a pure virtual function? What is its use?
 - 4) How memory is allocated to objects?
 - 5) What do you mean by a generic class? What is its use?
 - 6) What is abstraction?
 - 7) What are default arguments? Give example.
 - 8) What is Data hiding? How it is achieved in C++? Give example.
 - 9) Differentiate between Call by value and call by reference.
 - 10) What is a container class? Why it is used?
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