

Total No. of Pages : 2

Register Number :

5373

Name of the Candidate :

B.Sc. DEGREE EXAMINATION DECEMBER 2013.

(INFORMATION TECHNOLOGY)

(FIRST YEAR)

(PART – III)

160/150 — PROGRAMMING IN C AND C++

(Common with B.C.A.)

Time : Three hours

Maximum : 100 marks

SECTION A

Answer any EIGHT questions.

(8 × 5 = 40)

All questions carry equal marks.

1. Explain switch case statement with suitable example.
2. With suitable example explain how pointer variable is used to access members of a structure variable,
3. Briefly explain the significance of the keywords public and protected in detail.
4. With suitable example illustrate the use of objects as function arguments in detail.
5. What is a constructor and what are the special characteristics of constructor?
6. Explain with suitable example, how friend functions work as a bridge between the classes.
7. What is virtual base class? Write a C++ program to implement the concept of virtual base class.
8. What is this pointer? Illustrate the use of this pointer with an example.
9. What is meant by command line arguments? Write a C++ program to find the sum of five numbers using command line arguments.
10. Describe various mode flag for opening the file in C++.

SECTION B**Answer any THREE questions.****(3 × 20 = 60)**

11. Briefly explain various categories of operators in C language.
 12. Describe the fundamental concepts of objected oriented programming.
 13. Explain how base class constructors are used in the derived class with suitable example.
 14. Explain how compile-time and run-time polymorphism is achieved in C++ with suitable example.
 15. Describe C++ class hierarchy in detail.
-