

9205/A22

OCTOBER 2010

PROGRAMMING IN C++

Time : Three hours

Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Describe the use of scope access operator (::) and reference operator (&).
2. Write a program to use break and continue.
3. What does function prototype mean? Is it compulsory?
4. Describe rules for operator overloading.
5. What is parameterized constructor? Explain with example.
6. What are static members? Explain.
7. Write a program in C++ to pick out the biggest number among the given three numbers.
8. Explain member variable and member function with example.

9. What is hybrid inheritance? Explain.
10. Explain the concept of virtual base classes.
- PART B — (4 × 10 = 40 marks)
Answer any FOUR questions.
11. What do you mean by overloading of constructors? Explain.
12. Describe the use of public, private, and protected access specifiers.
13. With an example, explain how array of objects can be created and used.
14. Explain the concept of reference arguments with an example.
15. What is the necessity of virtual function?
16. Explain the control structures in C++ with example.
- PART C — (2 × 15 = 30 marks)
Answer any TWO questions.
17. Discuss the basic concepts of object oriented programming.
18. Explain the different types of inheritance with suitable examples.

19. Write notes on the following :

- (a) Inline function
- (b) Constructor overloading
- (c) Virtual base class.