II Semester B.C.A. Examination, May/June 2010
(Y2K8 Scheme) (08-09 & Onwards)
COMPUTER SCIENCE
BCA-204 : Object Oriented Programming Using C++

Time : 3 Hours   Max. Marks : 60

Instruction : *Answer all Parts.*

PART – A

Answer **any 10** questions. **Each** question carries **1** mark.   (10×1=10)

1. What is an object ?

2. What are inline functions ?

3. What is operator overloading ?

4. Mention different forms of inheritance.

5. What is polymorphism ?

6. Name any two memory operators in C++.

7. What is parameterized constructor ?

8. How is dynamic initialization of object achieved ?

9. What are generic pointers ?

10. What is an exception ?

11. What is an abstract class ?

12. What are command line arguments ?

P.T.O.

PART – B

Answer **any 5** questions. **Each** question carries **3** marks. (5×3=15)

13. When do we need to use default arguments in a function ? Give example.

14. What is a class ? How does it accomplish data hiding ?

15. Explain static member function with an example.

16. What are destructors ? Give its general characteristics.

17. Explain function overloading with an example.

18. Explain pure virtual functions with an example.

19. Explain the use of scope resolution operator.

PART – C

Answer **any 5** questions. **Each** question carries **7** marks. (5×7=35)

20. What are constructors and destructors ? How do they differ from normal functions ? Explain. 7

21. Explain the following with example :

    a) Virtual base class. 4

    b) Derived class. 3

22. What are friend functions ? Write a program to find maximum of two numbers using friend function. 7

23. Explain array of objects with an example. 7

24. Write a program to overload the operator = = to compare two strings. 7

25. a) Explain formatted console I/O operations. 3

    b) Explain class template with example. 4

26. a) What is late binding ? How is it different from static binding ? 3

    b) Explain exception handling with an example. 4

27. Write a program to create a text file and count the number of characters in it. 7

————————————