SG – 636

II Semester B.C.A. Degree Examination, Sept./Oct. 2021
(Y2K8)
COMPUTER SCIENCE
BCA 204 : Object Oriented Programming using C++

Time : 3 Hours Max. Marks : 70

Instruction *: Answer* ***all*** *Sections.*

SECTION – A

I. Answer **any ten** of the following : **(10×1=10)**

1) What is Data abstraction ?
2) What are keywords ? Mention any 2 keywords.
3) Explain const qualifier.
4) What is the use of scope resolution operator in C++ ?
5) Mention the operators that can not be overloaded.
6) Explain default constructor.
7) Mention any 2 advantages of inheritance.
8) Explain data conversion.
9) What are templates ?
10) What is a pure virtual function ?
11) What is exception handling ?
12) What is the use of eof( ) function ?

SECTION – B

II. Answer **any five** questions. **(5×3=15)**

13) List the various features of oops. Write any two limitations of oops.
14) What is constant qualifier ? Explain with example.
15) How do function defined in C++ ?
16) What is inline function ? Name two advantages of it.

P.T.O.

17) Explain any three built in string functions with example.

18) What is the difference between actual parameter and formal parameters ?

19) What is function overloading ? Explain with an example.

20) What is a function template ? Explain.

SECTION – C

III. Answer **any five** questions. **(5×7=35)**

21) a) Write the application of object oriented programming. **3**

b) Explain class definition with an example. **4**

22) a) Describe the different data types used in C++. **3**

b) Write the difference between call by value and call by reference. **4**

23) What is constructor ? Write the different rules in naming constructor in oops.

24) Write a C++ program to overload '+' operator to perform addition of two machines.

25) What is inheritance ? Explain the different types of inheritance and also write the advantages of it.

26) Explain overriding function with an example.

27) a) Describe the different modes of opening a file in C++. **4**

b) Explain the file pointers seekp( ), tellp( ) and seekg( ). **3**

28) Write a C++ program to search an element using templates.

SECTION – D

IV. Answer **any one** question. **(1×10=10)**

29) Write a C++ program to find the largest of three numbers using template.

30) Explain the mechanism of exception handling in C++ with various blocks associated with exception handling.
