AM–233

B.C.A. Part—II (Semester—III) Examination

OBJECT ORIENTED PROGRAMMING WITH C++

Paper—3ST2

Time—Three Hours] [Maximum Marks—60

N.B. :— (1) All questions are compulsory.

(2) All questions carry equal marks.

(3) Assume suitable data wherever necessary.

1. (a) What is object oriented programming ? What are the applications of OOP ? 6

(b) What is constant ? What are different types of constants used in C++ ? 6

OR

2. (a) What is meant by cost operator ? What are the differences between implicit and explicit type conversion ? 6

(b) Write a C++ program that will ask for a temperature in Fahrenheit and display it in Celsius. 6

3. (a) Explain the following loop control statement in C++.

(i) break statement

(ii) continue statement

(iii) goto statement. 6

(b) What are inline functions ? Write an inline function for finding minimum of two numbers. 6

OR

4. (a) What are default arguments ? Explain with suitable example. 6

(b) What do you mean by function prototyping in C++ ? Explain with example. 6

5. (a) What are objects ? Describe the syntax for defining objects with example. 6

(b) Explain the concept of passing objects as argument with suitable example. 6

OR

6. (a) What is class ? Describe the syntax for declaring a class with example. 6

(b) What are the differences between default and parameterized constructor ? Explain with example. 6

7. (a) Explain the syntax of declaring the derived class. Draw access privilege diagram for members of a base and derived class. 6

(b) What is meant by operator overloading ? Explain overloading of unary operator. 6

OR

8. (a) What is visibility mode ? What are the different inheritance visibility modes supported by C++ ? 6

(b) What are arrays ? Explain the concept of arrays of objects with suitable example. 6

9. (a) How is virtual function defined ? What are the rules for defining virtual functions ? 6

(b) Explain opening of sequential file for reading and writing data with suitable example. 6

OR

10. (a) What is polymorphism ? Describe different types of polymorphism in C++. 6

(b) Explain the following with example : 6

(i) ferror()

(ii) feof()

(iii) seekg()

(iv) tellp()