

C 2503 A

B.C.A. (Three Year) DEGREE EXAMINATION, MARCH/APRIL 2017.

End Semester Examination

Second Semester

Part II

OBJECT ORIENTED PROGRAMMING USING C++

Time : 3 Hours

Max. Marks : 70

PART — A

Answer any FIVE questions of the following. **(5 × 4 = 20 Marks)**

1. What is the basic structure of C++?
2. Explain about the data members and member functions.
3. Write about multiple inheritance.
4. What are the pure virtual functions?
5. Discuss about the nested try.
6. Explain briefly about call by reference.
7. Write about the abstract classes.
8. How do you explain function templates?

PART — B

Answer ALL the following questions. **(5 × 10 = 50 Marks)**

9. (a) Explain the basic concepts of OOPS.

Or

- (b) Write about briefly the function overloading with syntax and example.

10. (a) Define constructor. What are the various constructors involved in it?

Or

- (b) Discuss about the various types of objects with a suitable example.

Turn Over

11. (a) Explain the concept of inheritance and its types.

Or

(b) Write briefly about the virtual destructor.

12. (a) Discuss briefly about the virtual functions and explain the need of virtual functions.

Or

(b) Explain the concept of files with suitable examples.

13. (a) What is exception? How will you handle different types of exceptions with an example?

Or

(b) Write a C++ program that illustrates how runtime polymorphism is achieved using virtual functions.
