

C 2503 A

B.C.A. (Three Year) DEGREE EXAMINATION, MARCH/APRIL 2018.

End Semester Examination

Second Semester

Part II

(Regular / Supplementary)

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. Describe the applications of OOP technology.
2. What are the various data types in C++?
3. List the characteristics of a friend function.
4. Explain about Parameterized constructors.
5. Differentiate between function overloading and function templates.
6. Write a C++ program to illustrate multiple inheritance.
7. What is the need of Templates? Explain.
8. Explain the output manipulators: setw(), setprecision() and setfill().

PART — B

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

9. (a) Explain with the Basic Concepts of object oriented programming.

Or

- (b) What are the advantages of using default arguments? Explain with an example program.

Turn Over

10. (a) Explain the visibility of base class members for the access specifiers: private, protected and public while creating the derived class and also explain the syntax for creating derived class.

Or

- (b) Explain copy constructor and destructor with suitable C++ coding.
11. (a) Define function overloading. Write a C++ program to define three overloaded functions to swap two integers, swap two floats and swap two doubles.

Or

- (b) What are the different forms of inheritance supported in C++? Discuss on the visibility of base class members in privately and publicly inherited classes.
12. (a) Explain about Template and its types with example.

Or

- (b) Implement quick sort as a generic function.
13. (a) Explain about File Pointers and their manipulations with example.

Or

- (b) Explain about Exceptions Handlers and Standard Exceptions.
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