

18011

B.C.A. III Sem.

B.C.A. Examination, Dec.-2017

**OBJECT ORIENTED PROGRAMMING USING C++**

**BCA-301 (New)**

**Time : Three Hours**

**Maximum Marks : 75**

**Note :** Attempt all questions as per instructions.

**Section-A**

**(Very Short Answer Questions)**

**Note :** Attempt all five questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

1. Explain the term Class, Object and Abstraction.
2. List the basic difference in C and C++.
3. What is a constructor?
4. Define Overriding.
5. What is Exception handling?

**Section-B**

**(Short Answer Questions)**

**Note :** Attempt any two out of the following 3 question Each question carries 7.5 marks. Short answer is required not exceeding 200 words.

6. Write a sample code to show the structure of C++ program code.
7. Explain different types of inheritance with the help of a sample program.
8. Write a program to overload + operator.

**Section-C**

**(Detailed Answer Questions)**

**Note :** Attempt any three questions out of the following 5 questions. Each question carries 15 marks. Answer is required in detail.

9. (a) What are different types of header files, data types, operators available in C++.  
(b) Write a program that does dynamic memory allocation and then free the memory space for any variable.
10. Write a program to show the working of constructors along in inherited classes.
11. (a) Write a program to overload unary addition operator.  
(b) Differentiate between operator overloading and operator overriding.
12. Write a program to show the use of friend functions.
13. Write short notes on the following:  
(i) Parametric Polymorphism (ii) Garbage collection (ii) Exception Handling (iv) Generic Classes

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