

**1067****Code : 15EC63C***Register  
Number*

--	--	--	--	--	--	--	--	--	--

**VI Semester Diploma Examination, April/May-2019****OBJECT ORIENTED PROGRAMMING USING C++****Time : 3 Hours ]****[ Max. Marks : 100**

- Instructions :** (i) Answer any **six** questions from PART - A.  
(ii) Answer any **seven** full questions from PART - B.

**PART - A**

1. List the features of procedure oriented language programming. 5
2. Discuss any five data types in C++. 5
3. Describe if and if-else syntax with example. 5
4. Discuss classes and objects. 5
5. Explain Parameterized Constructors. 5
6. Discuss function overloading. 5
7. Explain single inheritance with example. 5
8. Describe polymorphism in C++. 5
9. Discuss the declaration and initialization of pointers. 5

**PART - B**

10. (a) Explain I/O statements in C++ with example. 5  
(b) Define the following tokens : 5
  - (i) Constants
  - (ii) Keywords
  - (iii) Strings
  - (iv) Identifiers
  - (v) Operators

11. Explain any five operators in C++ with example. 10
12. Write a C++ program to calculate variance and standard deviation of N nos. 10
13. (a) Differentiate between function call by value and call by reference. 5  
(b) Distinguish between while and do-while control structure. 5
14. Write a C++ program using a class to represent a bank account with data members as Name, A/c. number, Type of A/c., Balance and member functions to
- (1) Assign initial values
  - (2) Deposit an amount
  - (3) Withdrawal of amount
  - (4) Display name and balance
- 10
15. (a) Explain constructors and destructors in C++ with syntax. 5  
(b) List the rules for overloading operators. 5
16. Write a C++ program to calculate area and perimeter of rectangles using the concept of inheritance. 10
17. Discuss the functions with default arguments and inline functions. 10
18. (a) Describe pointer with arrays with example. 5  
(b) List the rules for virtual functions. 5
19. (a) Describe formatted and unformatted I/O functions. 5  
(b) List the features of JAVA. 5



BETA CONSOLE