

**Faculty of Science**  
**B.Sc (Computer Science) I-Year, CBCS –II Semester**  
**Regular Examinations -June/July, 2022**  
**PAPER: Programming in C++**

Time: 3 Hours

Max Marks: 80

**Section-A**

- I. Answer any *eight* of the following questions (8x4=32 Marks)
1. Define OOP. How it is different from Procedural Languages?
  2. What is String? Explain String Handling functions provided by C++ library.
  3. Write about Inline functions.
  4. Explain friends of classes.
  5. Demonstrate Operator Overloading.
  6. Write about Arrays of Objects.
  7. Write a program to demonstrate Pure Virtual Functions.
  8. What is Polymorphism? Explain.
  9. Explain, How Constructors and Destructors of Base class are used in Derived class?
  10. Explain the handling of bad alloc Exception.
  11. Write about STL.
  12. Discuss about Function Template with advantages.

**Section-B**

- II. Answer the following questions (4x12=48 Marks)
- 13.(a) Write in detail about C++ Tokens.  
(OR)  
(b) What is parameter? Explain different types of parameter passing mechanisms used in functions.
14. (a) What is Class? Demonstrate different types of Access Specifiers.  
(OR)  
(b) What are Constructor and Destructor? Explain types of constructors used.
15. (a) Explain Formatted and Unformatted I/O Operations.  
(OR)  
(b) What is Inheritance? How C++ implements it? Explain.
16. (a) What is Exception? Explain Multiple Exception Handling with program.  
(OR)  
(b) What is Template? Explain Class Templates.

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