

# COMPUTER SCIENCE - I YEAR - II SEMESTER

Imp questions

Ist II SEM BSC (MPCs)

Programming in C++

## UNIT - I

### I short questions

- 1) List and explain the operators that are used only in C++ ?
- 2) What is Function overloading ?
- 3) Explain about Arrays ?
- 4) Explain about strings & string functions ?
- 5) Define functions and prototype ?
- 6) Define Inline functions ?
- 7) Explain about default Arguments ?

### II Long questions

1. Explain about searching with an ex|| prog ?
2. Explain about sorting with an ex|| prog ?
3. Explain about Function calling methods  
(call by value, call by reference) with ex|| ?
4. Distinguish between oop and Pop ? Explain the oop concepts ?
5. Explain about control structures with ex|| prog ?

## UNIT - II

### I short questions

- 1) Define Private Member function ?
- 2) Define class ?
- 3) What is Destructor ?
- 4) Define static members ?
- 5) Explain about constructor ?
- 6) What is object conversion ?
- 7) Define Aggregation ?
- 8) Explain about Arrays of objects ?

### II long questions

- 1) What is copy constructor ? Write a C++ prog using copy constructor ?
- 2) What is operator overloading ? Write a C++ prog usage of Binary operator overloading ?
- 3) Explain Friend Function and Friend class with an example program ?
- 4) Explain static Data Members and Member functions with an example prog ?
- 5) Write a C++ prog Define member function outside the class ?

## UNIT - III

### I short questions

- 1) Explain unformatted I/O functions ?
- 2) Explain formatted I/O functions ?
- 3) Define Base class and Derived class ?
- 4) What is Abstract Base class ?
- 5) What is Inheritance ? types of Inheritance ?
- 6) What is Protected Members ?
- 7) Explain about Dynamic Memory allocation ?

### II Long questions

- 1) What is Polymorphism ? Explain different types of Polymorphism with ex|| programme ?
- 2) Explain the concept of virtual function with ex|| programme ?
- 3) Explain the concept of Pure virtual function with ex|| prog ?
- 4) Explain about multiple Inheritance with ex|| programme ?
- 5) Explain about Function overriding (Redefining Base-class function) with ex|| ?

## UNIT - IV

### I short questions.

1. What is an exception? Explain some built-in exceptions.
2. Define a template?
3. Explain about re-throwing an exception?
4. Write about STL?
5. Explain about handling the bad\_alloc exception?
6. Write about throwing an exception?
7. Defining objects of the class template?

### II long questions?

1. Write about object-oriented exception handling with classes?
2. Explain about function template with ex. prog?
3. Explain about class template with ex. prog?
4. Explain about exception handling with ex. programme?