

MCA Sem-1 (New) Examination  
Obj. Oriented Concepts & Prog.  
March 2022

Time : 3-00 Hours]

[Max. Marks : 50

**SECTION – I**

- Q-1** Attempt the following: (Any **THREE**) [15]
- Describe the important concepts of Object Oriented System.
  - Explain *cin* and *cout* with necessary figures. Explain constructor and its types with suitable example.
  - What is inline function? List down its merits and demerits.
  - Explain Operator overloading used in C++ in detail.
- Q-2** Write a program to perform addition of values of different data types using function overloading. [04]
- OR**
- Q-2** Write a program that will read m X n matrix from keyboard and perform the addition on it. [04]
- Q-3** Differentiate the following (Any **TWO**): [06]
- Data Abstraction and Encapsulation
  - Reference Variable and Pointer variable
  - Static data member and Static member function

**SECTION – II**

- Q-4** Attempt the following: (Any **THREE**) [15]
- What is Polymorphism? Explain dynamic Polymorphism.
  - Explain Exception handling techniques used in C++ program in detail.
  - Explain Class template with suitable example which needs to explain Function template used in C++.
  - Explain merits of Binary file used in C++. Explain the functions used to read and write Binary file.
- Q-5** Write short notes on followings. (Any **TWO**) [06]
- Member Initialization List
  - Inheritance and its types
  - Manipulators
- Q-6** Explain followings briefly: [04]
- Pure Virtual Function
  - Friend Function
  - Abstract Base Class
  - Namespace