

M.C.A. Sem.-1 (A.T.K.T.) Examination
Object Oriented Concepts & Programming

Time : 3-00 Hours]

July-2024

[Max. Marks : 50

Instructions:

- Write both the Sections in the separate answer book.
- Both Sections having equal weightage.
- Draw Diagrams wherever necessary.
- Make Assumptions wherever necessary.

SECTION – I

- Q-1 Explain the following terms with an appropriate example:** **09**
1. Inline function
 2. Abstract Class
 3. Namespace
- Q-2 Attempt the following. (Any Two)** **08**
1. Explain static data members and member function in detail.
 2. Differentiate Procedural Programming and Object-Oriented Programming.
 3. What is template? How to define function with multiple datatypes using template? Explain with an example.
- Q-3 Attempt the following. (Any Two)** **08**
1. What is MIL? How we can initialize the object using MIL? Also mention the advantage of MIL.
 2. What is constructor? Mention the rules to define and use constructor.
 3. What is friend function? Why we need it? Explain with an example.

SECTION – II

- Q-4 Answer the following.** **09**
1. What is manipulator? Explain different manipulators available in C++.
 2. Mention the rules for operator overloading
 3. How template class store internally for different datatypes?
- Q-5 Attempt the following: (Any Two)** **08**
1. What is inheritance? Explain different type of inheritance with an example.

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2. What is polymorphism? Explain with an example that why we need to use pure virtual function?
3. List out file handling function and explain any four file handling function.

Q-6 Write a note on following. (Any Two)

08

1. Input/Output modes in files
2. Different concepts of object oriented programming
3. Standard Template Library

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