

2111040101020002
EXAMINATION MARCH-APRIL 2024
MASTER OF COMPUTER APPLICATIONS
(FIRST SEMESTER)
OBJECT ORIENTED PROGRAMMING
METHODOLOGY (COURSE-102) –LEVEL 2

[Time: As Per Schedule]

[Max. Marks:70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **MASTER OF COMPUTER APPLICATIONS (FIRST SEMESTER)**
 - b. Name of the Subject : **OBJECT ORIENTED PROGRAMMING METHODOLOGY (COURSE – 102) –LEVEL 2**
 - c. Subject Code No : **2111040101020002**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 A) Explain any two input output classes of C++ in brief. **3**

 B) How can we use pointer type to access 2-dimensional array? **5**

OR

 B) Explain usage of malloc and realloc in detail with example. **5**

 C) What is Class in C++? How is it useful in application development? **6**

Q.2 A) Write a detail note on types of constructors in C++. **7**

 B) What is data hiding in C++? How can we achieve it while designing a class? **5**

OR

 B) Explain call of constructor in C++ multilevel inheritance. **5**

 C) How can we access a static data member of a C++ class? **2**

- Q.3** A) What is dynamic polymorphism? How to achieve it in C++? **6**
B) Explain difference between Public inheritance and Private inheritance in C++. **5**

OR

- B) Can we create instance of an Abstract class? Justify your answer in detail. **5**
C) List out rules of operator overloading in C++. **3**

- Q.4** A) Write a detail note on try - catch statement usage in C++. **7**

OR

- A) Explain generalized and specialized exception. Why their order of writing is Important while an exception occurs? **7**
B) Write a note on file operations modes and its usage in C++. **5**
C) Explain term random access for data file operations. **2**

- Q.5** A) Explain any two standard template library sequence containers in detail with Example. **6**

OR

- A) Is it possible to inherit an abstract class in a template class? Justify your Answer in detail. **6**
B) How to create a Template Function? How it works to achieve Polymorphism? **5**
C) Explain issues with Template Function. **3**
