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[Roll No.]

MCS-502/MIT(CS)-303

**MSCCS/MCA/MSCIT IIIrd Semester
Examination Dec., 2023**

OOPs USING C++

Time : 2 Hours]

[Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given there in. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

Section-A

(Long Answer Type Questions) 2×19=38

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

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(1)

P.T.O.

1. Explain Object Oriented Programming. What is its feature ? Explain with an example.
2. What is Dynamic Memory ? Define System Memory and Static Memory.
3. What are constructor and destructor ? When they are used ? Explain with suitable example.
4. Explain Inheritance. What are the different types of inheritance are there ? Explain with example.
5. What do you mean by function overloading ? How it is different from operator overloading ?

Section–B

(Short Answer Type Questions) 4×8=32

Note :- Section ‘B’ contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Define class and object with suitable example.
2. What do you mean by data abstraction ? Explain.
3. What do you understand by passing arguments to a base class construction ? Explain with suitable example.
4. Explain the concept of Encapsulation.

5. What are custom file operators ?
6. Define Base class and Derived class.
7. Distinguish between Binary and Unary Operators.
8. Write a C++ program to swap the values of two variables.
