

MCA-10

December – Examination 2022

MCA Examination

OBJECT-ORIENTED PROGRAMMING THROUGH C++

Paper : MCA-10

Time : 3 Hours]

[Maximum Marks : 80

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section-A

8×2=16

(Very Short Answer Type Questions)

Note :- Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 2 marks.

1. (i) What is Object ? How to create in C++ ?
- (ii) What is the use of break statement ? Give an example.

- (iii) What is Virtual Function ?
- (iv) What is Abstraction ?
- (v) What is Encapsulation ?
- (vi) Name any four data type in C++.
- (vii) Give an example of character array.
- (viii) Give the use of scope resolution operator.

Section-B **4×8=32**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 8 marks.

- 2. Distinguish between Structure and Class.
- 3. Describe function overloading with suitable examples.
- 4. Write a program to find a given number is even or odd.
- 5. Describe the various access specifier used with suitable examples.
- 6. Write short note on Inline Function.
- 7. What is virtual and pure virtual function ? Use this concept to calculate the area of a square and a rectangle.

- 8. What are file classes ? State their functions.
- 9. Describe the various characteristics of Object Oriented Programming.

Section-C **2×16=32**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 16 marks.

- 10. What is Constructor ? Why is it used ? How is it differ from destructor ? Explain with suitable example.
- 11. Describe the various types of Inheritance with suitable example.
- 12. Discuss the various file handling I/O operations in C++ with suitable example.
- 13. Describe the various control statement in C++ with suitable examples.