

Roll No.

Total Pages : 3

1034/MR

F-10/2051

OBJECT ORIENTED PROGRAMMING

WITH “C++”

Paper–MCS-204 A

Semester–II

Time allowed : 3 Hours] [Maximum Marks : 40

Note: The candidates are required to attempt two questions each from section A and section B carrying 6 marks each and the entire section C consisting of 8 questions carrying 2 marks each.

SECTION-A

1. Define the following : 6
 - (a) Abstraction
 - (b) Inheritance
 - (c) Polymorphism
 - (d) Code reusability
2. Discuss the features of various storage classes, giving suitable examples for each of them. 6

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3. Write a program to search a number in a given list of numbers using pointers. 6
4. Define reference. How does a function return a reference? Explain giving example. 6

SECTION-B

5. Define static data members and static member functions? How these are used? Explain giving examples of each. 6
6. What are the different types of scopes in C++? Explain giving example for each of them. 6
7. Create a matrix class with a friend function for adding two matrices. 6
8. Overload unary increment operators for pre-increment and post-increment operators. 6

SECTION-C

9. All questions are compulsory : 2×8= 16
 - (i) Define encapsulation.

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- (ii) What are Manipulators?
- (iii) What do you mean by Function Returning Reference?
- (iv) What is the difference between `int *A[10]` and `int (*A)[10]`?
- (v) What are the different types of Base Classes?
- (vi) What is the purpose of “this” pointer?
- (vii) Define constant function.
- (viii) What do you mean by a Container Class?