

QP Code : 1033

(3 Hours)

Total Marks:100

NB: 1) Question Number 1 is compulsory.

2) Attempt any four questions out of remaining six questions.

- Q1 a) What is object oriented programming? Explain the features of object oriented programming. 5
- b) Explain call-by value and call by reference with example. 5
- c) What is virtual function? Explain the need of virtual function. 5
- d) Differentiate class and structure with example. 5
- Q2 a) Write a program that can enter and display the data up to 10 employees using structure. Employee structure has members employee_code and salary. 10
- b) What is default constructor? Explain with example. 10
- Q3 a) Write a program to find area and perimeter of the rectangle using pure virtual function. 10
- b) Write a program to swap two numbers using pointers. 10
- Q4 a) Explain storage class with one programming example. 10
- b) What are the different types of inheritance? Explain each with example. 10
- Q5 a) Write a program to display following pattern using nested loops :- 10
- A
A B A
A B C B A
A B C D C B A
- b) Write a program to check the entered number is prime or not. 5
- c) Write a program to find factorial value of given integer number using recursion. 5
- Q6 a) What are inline functions? Discuss its advantages and disadvantages. Write program to demonstrate inline function. 10
- b) Write a program in C++ to transpose a matrix. 10
- Q7. Write short note on any four 20
- (a) this pointer
- (b) Constructor & Destructor
- (c) Bitwise operators
- (d) Distinguish between Function Overloading and Operator Overloading
- (e) break & continue

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