

10. Which of the following is the most preferred way of throwing and handling exceptions?

- a) Throw by value and catch by reference.
- b) Throw by reference and catch by reference.
- c) Throw by value and catch by value
- d) Throw the pointer value and provide catch for the pointer type.

PART B (10 x 2 = 20 Marks)

11. What do you mean encapsulation?

12. Define OOPs?

13. What do you mean by inline function?

14. Can the constructor, destructor functions be overloaded? If yes / no give reasons.

15. What is an explicit constructor?

16. What is the difference between class and structure?

17. What is the difference between method overloading and method overriding?

18. What is the general form when a class inherits another class?

19. What do you mean by virtual methods?

20. What do you mean by early binding?

PART C (5 x 14 = 70 Marks)

21. a) Explain in detail the basic concepts of OOPS.

[OR]

b) (i) Write a program in c++ to find the factorial of a given number. (7)

(ii) Give some applications of OOPS? (7)

22. a) Explain the function overloading with an example.

[OR]

b) Write a program to perform the arithmetic operations of two numbers.

23. a) Write a program to find the sum of two 3*3 matrixes and display the result.

[OR]

b) With an example explain constructors.

24. a) Explain inheritance and its types with examples.

[OR]

b) Write an example to demonstrate the unary overloading and explain it.

25. a) Explain virtual function with example.

[OR]

b) (i) Explain function templates with an example. (7)

(ii) Explain the concept of friend function with an example. (7)
