

Subject: C++ Programming

Total Marks: 80

Instructions: Answer all 16 questions. Each question carries 5 marks.

1. Explain the features of Object-Oriented Programming (OOP).
2. Differentiate between C and C++.
3. What is a class and object in C++? Explain with an example.
4. Write a program to create a class with two variables and display them.
5. Explain access specifiers in C++: public, private, and protected.
6. What is a constructor? Explain types of constructors.
7. Explain destructor with an example.
8. Write a program to demonstrate function overloading.
9. What is operator overloading? Give an example.
10. Explain inheritance. Describe types of inheritance in C++.
11. Write a program to implement single inheritance.
12. What is polymorphism? Explain runtime and compile-time polymorphism.
13. What is a virtual function? Explain with an example.
14. Describe the use of templates in C++.
15. Explain exception handling with try, catch, and throw.
16. Write a program to handle divide-by-zero exception using try-catch block.