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Subject Title: Object Oriented Programming with C++

Year: II Semester: IV Updated on: 23.03.

Unit - I:

- 1. Write about the evolution of object oriented programming language.
- 2. Explain the differences between procedures oriented programming and object oriented programming.
- 3. List the advantages of OOP.
- 4. Write the differences between c and C++.
- 5. Give a brief introduction about C++. Illustrate structure of C++ program with an example.
- 6. List out various types of operators of C++.
- 7. Explain in detail various data types in C++
- 8. Explain in detail about functional concepts of OOP/ Principles of OOP in C++
- 9. Discuss in detail about control structures.
- 10. Define Function. Write how a function can be declared and defined.

Unit - II:

- 11. Define object. How an object is created in C++.
- 12. What is constructor? Explain types of constructors.
- 13. What is encapsulation? Explain with an example.
- 14. What is data hiding? Explain with an example.
- 15. How do you specify default arguments in function definition? Illustrate with an example.
- 16. What is inline function? Explain with an example.
- 17. Write a short notes on a)Garbage Collection b) Dynamic memory allocation
- 18. Write a short notes on a) Abstract Class b) Meta Class

Unit - III:

- 19. Define function overloading. Illustrate with an example.
- 20. What is operator overloading? Explain with suitable example overloading of unary operator.
- 21. Write a C++ program to implement binary operator overloading over + operator to add two complex numbers.
- 22. What is type conversion?
- 23. Discuss briefly the three possibilities of data conversion with example program for each.
- 24. Discuss various visibility modes of C++.



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25. Define inheritance. Explain various types of inheritance.

Unit - IV:

- 26. What is virtual function?
- 27. Define polymorphism.
- 28. What is pure virtual function?
- 29. State the need of virtual classes
- 30. What is standard output stream?
- 31. Define get() and put() functions.
- 32. What is polymorphism? Explain different types of polymorphism.
- 33. Define and explain virtual classes.
- 34. Explain virtual function with an example.
- 35. Explain the different types of file stream classes.
- 36. Explain formatted I/O functions with example.
- 37. Explain unformatted I/O functions with example.

Unit - V:

- 38. Explain exception handling mechanism with an example.
- 39. What is data structure? What are different types of data structure? Explain with suitable examples.
- 40. Differentiate between stacks and queues.
- 41. Define Linked List. Advantages and disadvantages of LL. Operations possible on LL.
- 42. What is stack?
- 43. What is queue? Explain primitive operations on queue.