

**B.E DEGREE EXAMINATIONS: APRIL/MAY 2014**

(Regulation 2009)

Fifth Semester

**FASHION TECHNOLOGY**

CSE141: Object Oriented Programming With C++

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions**

**PART A (10 x 1 = 10 Marks)**

1. Security is done through
  - a) Polymorphism
  - b) Abstraction
  - c) Encapsulation
  - d) Inheritance
2. OOP concepts are
  - a) Top Down approach
  - b) Bottom up approach
  - c) Procedure based
  - d) Methods Based
3. Copy constructor is used
  - a) To copy one object from other
  - b) To initialize methods
  - c) To initialize object
  - d) To initialize data member
4. Call by reference
  - a) Will change the actual argument
  - b) Will not change the actual argument
  - c) Will change all the variables
  - d) Will not change all the variables
5. Friend function can access
  - a) Only Private data members
  - b) Only protected data members
  - c) Only Public data members
  - d) Private and Public data members
6. A class derived from another derived class is called
  - a) Multiple inheritance
  - b) Multilevel inheritance
  - c) Single inheritance
  - d) Hybrid inheritance
7. Destructors are used to
  - a) Allocate memory
  - b) Release memory
  - c) Reallocate memory
  - d) None of the above
8. Compiler time polymorphism is
  - a) Operator overloading
  - b) Function overloading
  - c) Function overriding
  - d) a&b
9. Virtual functions are used in

- a) Dynamic binding
  - b) Function overloading
  - c) Operator overloading
  - d) None of the above
10. Run time polymorphism is
- a) Operator overloading
  - b) Function overloading
  - c) Function overriding
  - d) All of the above

**PART B (10 x 2 = 20 Marks)**

11. List out any four features of Object Oriented Programming
12. Write a C++ program to add two numbers. Use constructor to initialize the values.
13. What is function prototype? Give an example
14. Distinguish between inline function and ordinary member function
15. What is constant member function? Give an example
16. Enumerate the uses of static data members
17. Define parameterized constructor. Give an example
18. Give one example for compile time polymorphism and explain
19. Give an example for multiple inheritance
20. What is the use of virtual function?

**PART C (5 x 14 = 70 Marks)**

21. a) (i) Distinguish between procedure oriented and object oriented programming. (7)  
(ii) Write a program to find the given number is odd or even and also find the number is prime or not. (7)
- (OR)**
- b) Illustrate the use of polymorphism and write the applications of OOP
22. a) Write a C++ function to add distance in meters and centimeters. Use function overloading, inline function, call by reference.
- (OR)**
- b) (i) List out the different function prototypes. Give an example for each (10)  
(ii) Give a structure for any two decision making statements. (4)
23. a) (i) Write a program to do String concatenation and String Length (7)  
(ii) Write a program to find average mark of 10 students. Each has 3 subjects. Use object as a parameter to function and array of objects. (7)
- (OR)**

b) Write a program to add N time unit in the form of hh:mm:ss. Use array of objects.

24. a) Explain the concept of binary operator overloading for matrix multiplication.

**(OR)**

b) (i) Explain different types of constructors with an example (10)

(ii) Enumerate the rules for operator overloading. (4)

25. a) Explain with an example about the types of inheritance.

**(OR)**

b) (i) Write a note on Abstract classes (5)

(ii) What is Virtual function? Give an example. (9)

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