Q.3 Answer the following questions in short (Any 10):

[20]

- 1. What is object oriented programming?
- 2. Define inheritance.
- 3. Differentiate: variable and constant.
- 4. List all access specifiers and also write its use.
- 5. List all operations on Array.
- 6. Define string and write how to declare string in C++.
- 7. Define friend function & list its use.
- 8. Define inheritance & state two advantages of it.
- 9. Discuss default arguments briefly.
- 10. List some of the rules for overloading operator.
- 11. List out five operators to be overloaded in C++.
- 12. Explain the multiple meanings of the operators << & >> in C++.

Q.4 Answer the following questions in LONG (Any 4):

[32]

- 1. Explain features (characteristics) of OOP in detail.
- 2. Explain all loop statements..
- 3. Explain copy constructor and constant objects with example.
- 4. Define constructor and write characteristics of constructor. Also explain constructor overloading with example.
- 5. Discuss inheritance in private mode and protected mode & its effects on accessibility of base-class members.
- 6. Discuss inline function and virtual function with appropriate example.
- 7. Explain binary operator overloading using friend function with example.
- 8. Explain unary operator overloading with example.

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