Date: 30/09/15

VCD- 300915 -SYCS-COMP-II-SEM III-75Mks-2 1/2 Hrs.

Note: All Questions are Compulsory.

Q.1: Attempt Any Four From the Following:

(20 M)

- 1. Explain benefits of using OOP in comparison with procedure oriented language.
- 2. How memory can be allocated for objects? Explain.
- 3. Write a note on Destructor in C++.
- 4. What is parameterised constructor? List some properties of constructor.
- 5. How we can construct two dimensional array?
- 6. Explain Friend function with proper example.
- 7. Write a note on copy constructor.
- 8. What is class? How does it accomplish data hiding?

Q.2: Attempt Any Four From the Following:

(20 M)

- 1 Explain the concept of binary operator overloading using friend function.
- 2. Explain multiple and multilevel inheritance.
- 3. Write a C++ program to illustrate how pointers to a derived object are used.
- 4. Write a note on C++ stream classes.
- 5. What are the rules for virtual function?
- 6. Explain getline() and write() function with proper example.
- 7. Write a note on this pointer.
- 8. How polymorphism can be achieved at compile time and run time?

Q.3: Attempt Any Four From the Following:

(20 M)

- 1. Explain following file stream classes: 1.ifstream 2.Ofstream 3.fstream
- 2. Explain write() and read() function.
- 3. What is file mode? Describe the various file mode options available.
- 4. Write a C++ program to implement bubble sort algorithm using template function.
- 5. What are the member function template?
- Explain try... and catch.. block with proper example.
- 7. Describe various classes available for file operation.
- 8. List the three types of container.

Q.4: Attempt Any Three From the Following:

(15 M)

- 1. What is an algorithm? How STL algorithms are different from conventional algorithm?
- 2. What are the input and output streams?
- 3. What are the benefits of OOPS?
- 4. Write a note on User defined data types.
- 5. Explain the concept of pure virtual class.
- 6. What is mean by re-throwing of exception.
