

BE (Fifth Semester)
Electronics and Telecommunication
Data Structure with C++ - 328552(28)
2014 - Winter Session , New Scheme

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Chapter 1

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|---|--|----------|
| 1 | Differentiate C and C++ languages (Any three points). | 2 |
| 2 | Explain array of objects with an example. | 2 |
| 3 | Explain basic concepts of object oriented programming.? | 7 |
| 4 | What do you mean by constructors? Explain different type of constructors.? | 7 |

Chapter 2

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|---|--|----------|
| 1 | Define derived class. | 2 |
| 2 | What is operator overloading? Write a program to Overload '+' operator to add two complex numbers. | 7 |
| 3 | What is inheritance? What are various type of inheritance. | 7 |
| 4 | Explain signal inheritance. write a program using public visibility.? | 7 |

Chapter 3

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|---|---|----------|
| 1 | What is an abstract class? | 2 |
| 2 | What is pointer? Define memory management operator in C++
(i) new
(ii) delete | 7 |

- 3 What is virtual function? Why do we need virtual function explain with an example. **7**
- 4 Write a program in C++ to show the use of pure virtual function. **7**

Chapter 4

- 1 Define Queue. **2**
- 2 Define Searching. Write a program for binary search **7**
- 3 Define sorting. Explain Selection or bubble sort with an example. **7**
- 4 What is stack? Explain stack operation in data structure. **7**

Chapter 5

- 1 What is file? Write any two file pointers with syntax **2**
- 2 Explain with detail file stream classes? **CSVТУonline.com** **7**
- 3 What is template? Explain with example **7**
- 4 How can we handle exception in C++ **7**