SUPPLYMENTERY EXAMINATION   FEBRUARY 2018

CO/SE-203 OBJECT ORIENTED PROGRAMMING

Time: 3 Hours   Max. Marks : 40

> Note :   Answer any five questions
>   Assume suitable missing data, if any.

Q1. (a) Explain different data types in C++. Give suitable examples for each.   4
(b) Differentiate between class and object. How the memory to each member
is allocated?   4

Q2. (a) How to create pointer to members of objects? Give examples   4
(b) Write a program using function overloading to find area of different
shapes.   4

Q.3 (a) Explain the features of object oriented programming.   4
(b) What is operator overloading? Write a program to overload addition
operator to add two matrices.   4

Q4. (a) How many keywords are there in C++. Explain keywords - class, virtual,
protected.   4
(b) Explain the steps involved in exception handling.   4

Q.5 (a) What is a friend function? Write a program to add to numbers using a
friendly function.   4
(b) Explain inheritance, their types, modes, visibility with examples?   4

Q6. (a) What are the rules for naming identifier?   3
(b) Write a program to add, show details of two wheeler and four wheeler
using inheritance where class "vehicle" is inherited by two different classes
"two_wheeler" and "four_wheeler"   5

Q7. Write short notes on any two :-   8
(a) Virtual function
(b) Templates
(c) Call by value and call by reference
(d) Features of Java