2018 CSIT CSIT: 1.1

ADVANCED CONCEPT IN OBJECT-ORIENTED PROGRAMMING

Full Marks:80 Time: 3 hours

The figures in the margin indicates full marks for the questions

1.

not allowed

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Tick the correct a	nswers:	1:	x6=6
(a) The members of	f a class are by o	default	
(a) public	•		
(c) protected	(d) none o	of the above	
(b) When a class is	defined, memor	v allocation is done	
(a) at the same		(b) when objects are declar	ared
(c) when functions are called			
(c) The following pr	ogram will gen	erate an error message	
void main()			
{			
return 0;			
}			
(a) main() canno	ot return value ((b) void keyword is not allow	ed in

(c) function should return a non-zero value (d) return statement is

(d) When a function is called	ed bymethod, it does not affect the
actual contents of actual	arguments.
(a) call by value	(b) call by address
(c) call by reference	(d) none of the above

- (e) In Inheritance, if base class and derived class both have destructors, the execution takes place
 - (a) from base class to derived class

(b) in base class only

(c) from derived class to base class

(d) in derived class only

(f) Static data member is stored in memory as

(a) number of copies

(b) two copies

(c) only one copy

(d) no copy

2. Answer thefollowing questions

4x6 = 24

- a. What is object oriented programming? What is the advantage of OOP over POP?
- b. Describe the parts of a function?
- c. What are classes and objects? Give examples.
- d. How are memories allocated to objects? Explain?
- e. What is multipath inheritance? What is virtual base class?
- f. What is early binding and dynamic binding?

3. Answer anyfive questions from the following: (2+8)x 5 = 50

- a. How are member functions defined? Write a C++ program to define member function of class outside the class.
- b. What is constructor? Write a C++ program to show that for each object constructor is called separately.
- c. What is parameterized constructor? Write a C++ program to create a constructor with arguments and pass the arguments to the constructor.

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- d. What is a static member variable? Write a C++ program to show the difference between static and non-static member variable.
- e. What is multilevel inheritance? Write a C++program to create multilevel inheritance.
- f. What is friend function? Write a C++ program to access private data using non-member function. Use friend function.
- g. What do you mean by operator overloading? Write a C++ program to perform addition of two objects using operator keyword.
