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## 322415 (22)

BE (4th Semester)

Examination, Nov.-Dec., 2014

Branch: CSE, IT

# OBJECT ORIENTED CONCEPTS & PROGRAMMING USING C++

Time Allowed: Three Hours

Maximum Marks: 80

Minimum Pass Marks : 28

Note: All the questions are equal number. Attempt any two parts from b, c, d. Part (a) is compulsory.

Q. 1. (a) Define inline function with syntax. 2

(b) What are the various operators available inC++. Describe the operators which were not available in C.7

(c) How object oriented programming language (OOPL) is differ from procedure oriented

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(2)

programming language (POPL) ? Write basin concepts and benefits of OOPS.

(d) Explain function overloading. Illustrate a program to overload MULT ( ) to find multiplication of:

i) Two integer values

(ii) Three floating values

(iii) Two integer and two floating values.

Q. 2. (a) What do you mean by data hiding.

(b) What is the difference between static data member and static member function? Explain with example.

(c) Write a program to add two time formats (x hour and y minute and z second).

Derive the C++ code to demonstrate it with object as function argument.

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d)	Expl	ain friend	d fund	tion. Writ	e a	pı	ogram	to
	find	average	values	of 3 numb	oers	d€	eclared	as
	the	private	data	member	of	3	differe	nt
	clas	sses.						7

- (a) What do you mean by destructor.
- (b) Explain binary operator overloading with friend function.7
- (c) What is constructor? Explain dynamic constructor with example.7
- (d) Write a program in C++ to convert a data of basic data type to class type and class type to basic type.7
- 4. (a) What is abstract class?
  - (b) What are the various type of inheritance?Explain hybrid inheritance with the help of example.7

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- (c) What do you mean by pointer to object Explain this pointer with an example.
- (d) Differentiate virtual function & pure virtual function. Explain with an example.
- Q. 5. (a) What is exception in oops.

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- (b) Explain the following file handling function was proper syntax (any four).
- (c) Explain the use of eof () and open () funding in file handling using suitable example.
- (d) What is class template? Demonstrate to use of vector class template for performing the scalar product of integer type vector.

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