Roll No	
12048	
MBA 2 Year 3rd	Semester (CBCS)
Examination -	December, 2018
OBJECT ORIENTED A	NALYSIS AND DESIGN
Paper: 17IMG23CT1	
Time : Three Hours]	[Maximum Marks : 50
	ndidates should ensure that they have plete question paper. No complaint in examination.
	No. 1) is <i>compulsory</i> . Attempt ach Unit in Section – B . All marks.
SECTI	ON – A
1. (a) Why object orientation	on is needed?
(b) What is use case mo	delling?

(c) Why is object constraint language used?

(d) What are the different degrees of coupling among

objects?

(e) What is debugging?

SECTION - B

UNIT - I

- 2. (a) What is data hiding? What are the different mechanisms for protecting data from the external users of a class's objects?
 - (b) Why object-oriented programming approach is the preferred form of programming over other approaches?
- 3. What is polymorphism? Write a program to overload the + operator for manipulating the Distance class.

UNIT - II

- **4.** "An Object Modelling Language is a standardized set of symbols and ways of arranging them to model (part of) an object oriented software design or system design." Explain.
- **5.** What is dynamic modelling? Discuss the purpose of dynamic modelling.

UNIT - III

- **6.** (a) What is the difference between member functions defined inside and outside the body of a class? How are inline member functions defined outside the body of a class?
 - (b) What are empty classes? Can instances of empty classes be created? Give reasons.
- 7. What do you mean by Constructors? Explain various types of Constructors in C++ with examples.

UNIT - IV

- 8. (a) What are the different forms of inheritance supported by C++? Explain them with an example.
 - (b) What is a class hierarchy? Explain how inheritance helps in building class hierarchies.
- 9. (a) Describe different methods of realizing polymorphism in C++.
 - (b) Justify the need for virtual functions in C++.
 - (c) Why C++ supports type compatibles pointers unlike C?