Roll No.

12048

MBA 2 Year 3rd Semester (CBCS) Examination - December, 2018

OBJECT ORIENTED ANALYSIS AND DESIGN

Paper: 17IMG23CT1

Time: Three Hours]

[Maximum Marks: 50

been supplied the correct and complete question paper. No complaint in Before answering the questions, candidates should ensure that they have this regard, will be entertained after examination.

Note: Section - A (Question No. 1) is compulsory. Attempt one question from each Unit in Section - B. All questions carry equal marks.

SECTION - A

- 1. (a) Why object orientation is needed?
- (b) What is use case modelling?
- (c) Why is object constraint language used?
- (d) What are the different degrees of coupling among objects?
- (e) What is debugging?

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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?