UNIT – IV

8. (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 ?

9. Explain the various techniques of defining pure virtual function.

Roll No. .....

12048

MBA 2 Year 3rd Semester (CBCS) Examination – December, 2019

OBJECT ORIENTED ANALYSIS AND DESIGN

Paper : 17IMG23GT1

Time : Three Hours] *[Maximum Marks : 50*

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

Note : Section-**A** is ***compulsory***. Attempt ***one*** question from each Unit in Section-**B**. All questions carry equal marks.

SECTION – A

1. (a) Differentiate between a local and a static object.

(b) What is an Abstract class ?

(c) Why do we need virtual destructors ?

(d) How do you call a virtual function in base class ?

(e) Write the use of function overriding.

SECTION – B

UNIT – I

2. (a) Differentiate between Object Oriented Programming and Procedure Oriented Programming.

(b) Explain the following OOP features :

(i) Class

(ii) Encapsulation

(iii) Polymorphism

(iv) Inheritance

3. What is a class ? What is the relation between an object and a class ? Write a program which shows how to define a class, how to access member functions and how to create and access objects in C++.

UNIT – II

4. Describe the mechanism of Object-oriented Approach. Specify the analysis process. How does class modeling and use-case modeling help ?

5. What is dynamic modeling ? Discuss the purpose of dynamic modeling.

UNIT – III

6. What is operator overloading ? List the operators that cannot be overloaded. Why it is necessary to overload an operator ? Define operator function and describe the syntax of an operator function.

7. Define Function ? What are friend functions and friend classes ? Write a normal function which adds objects of the complex number class. Declare this normal function as fiend of complex class.