

*Total No. of Questions : 8]*

*[Total No. of Printed Pages : 2*

**Roll No .....**

## **IT-7002-CBGS**

### **B.E. VII Semester**

Examination, June 2020

## **Choice Based Grading System (CBGS)**

### **Object-Oriented Analysis and Design**

*Time : Three Hours*

*Maximum Marks : 70*

**Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain about Object Oriented Analysis and Design process. 7  
b) Write notes on: 7
  - i) Encapsulation
  - ii) Class Hierarchy
2. a) Explain Aggregation and Generalization. 7  
b) Explain the OO system design life cycle model. 7
3. a) With a suitable example explain how to design a class. Give all possible representation in a class (name, attribute, visibility, methods, responsibilities). 7  
b) Explain the Object Modelling technique with suitable example. 7
4. a) Give the comparison list of Object oriented programming language C++ and JAVA. 7  
b) Explain the state chart diagram with a suitable example. Also define its components and use. 7

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5. a) Illustrate with an example, the relationship between sequence diagram and use cases. 7  
b) What do you mean by Interaction diagrams? Explain them with a suitable example. 7
6. a) Compare about use-case driven approaches. 7  
b) Explain in brief, Relational V/s Object oriented databases. 7
7. a) Explain in detail the characteristics of Object oriented programming languages. 7  
b) Discuss about UML deployment and component diagrams. Draw the diagrams for a banking application. 7
8. Explain the following: 14
  - a) Unified Modeling Language (UML)
  - b) UML Class diagram
  - c) Purposes of Modeling

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