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## **CS-5005(1)-CBGS**

### **B.E. V 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) What is an Abstract class? What is a Concrete class?  
Explain with example abstract class and abstract operation. 7  
b) Define the term object oriented. Explain the various aspects included in object oriented approach. 7
2. a) How does the object oriented approach differ from the traditional approach? Why is re-usability important? How does Object-Oriented Software Development Promote (achieve) and improve reusability? 7  
b) Explain the Object Modelling Technique with suitable example. 7
3. a) Explain the state diagram with a suitable example. Also define its components and use. 7  
b) Compare object oriented programming language C++ and JAVA. 7
4. a) Explain the OO system design life cycle model. 7  
b) What kinds of errors do you make if you directly rush into the implementation phase of a software project? How do you decide which classes, associations and generalizations should be eliminated? 7

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5. a) Explain characteristics of object-oriented programming. 7  
b) Define addressing modes. Give the details of different addressing modes. 7
6. Under what situation activity diagram should not be used? Which diagrams are preferable under such situations? Also give practical situations, when to use the following diagram: 14  
a) Use-case diagram  
b) Object diagram  
c) Interaction diagram
7. What are the similarities/dissimilarities between a sequence diagram and collaboration diagram? Draw the interaction diagram for an ATM-used for card based banking system. 14
8. a) Illustrate the comparison of use-case driven approach. 7  
b) Why interaction model is more important for application analysis? Briefly explain the steps for preparing 'application interaction model'. 7

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