

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

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

### **B.E. V Semester**

Examination, December 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) Describe the various Object Oriented concepts.  
b) Explain generalization and aggregation with suitable example.
2. a) Describe the Object Oriented Systems Development Life Cycle?  
b) Explain object diagram and state diagram of ATM machine.
3. Explain the following terms :
  - i) Design of association
  - ii) Polymorphism
  - iii) Physical packaging
4. a) Explain the OO system design life cycle model.  
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?

CS-5005(1)-CBGS

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[2]

5. Describe the basic activities in object oriented analysis and explain how use case modeling is useful in analysis.
6. a) Write a short note on implementation of design using:
  - i) Programming Language
  - ii) Database systemb) What do you mean by a design document?
7. Write a short note on any two:
  - a) Class Diagram
  - b) Sequence Diagram
  - c) Use-case Diagram
8. Write short notes on the following:
  - a) Class relationship in UML
  - b) Component diagram
  - c) Link and association
  - d) Abstract classes

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