

C022532(022)

**B. Tech. (Fifth Semester) Examination,
Nov.-Dec. 2021**

AICTE (New Scheme)

(Computer Science Engg. Branch)

OBJECT ORIENTED ANALYSIS & DESIGN

Time Allowed : Three hours

Maximum Marks : 100

Minimum Pass Marks : 35

***Note : Attempt all questions. Part (a) is compulsory
& solve any two from (b), (c) & (d) of each
questions.***

Unit-I

1. (a) What are the benefits of object oriented technology
in real life?

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- (b) What are the basic key aspects of OO DEVELOPMENT? 8
- (c) What is N-ary associations? List the various benefits of N-ary association. 8
- (d) What is Inheritance? Explain the different types of inheritance by giving example. 8

Unit-II

2. (a) Explain System Sequence Diagram. 4
- (b) Draw a state diagram for submission of examination form. Following are some of the considerations : 8
- (i) All alignment pertaining to the semester needs to be submitted within the due date.
 - (ii) Demand draft for all the courses to be approved need to be taken @ Rs. 60/- per course.
 - (iii) Examination form needs to be filled up.
 - (iv) It should be verified by the study centre Co-ordinator.
 - (v) The attested form should be submitted to the Regional center concerned.

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- (c) Draw the use case diagram for health care system. 8
- (d) Explain Integrated Object-oriented Models. 8

Unit-III

3. (a) What is domain analysis and application analysis? 4
- (b) Explain the different stages for software development process. 8
- (c) Explain development life cycle for process. 8
- (d) What do you mean by Devising a System Concept and Elaborating a Concept. 8

Unit-IV

4. (a) Write class design steps. 4
- (b) Draw and explain Architecture of the ATM System. 8
- (c) How do you estimate the performance for design? 8
- (d) Write short notes on : 8
- (i) Making a reuse plan, and
 - (ii) Breaking a system in sub system.

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Unit-V

5. (a) What is a Design Pattern? 4
- (b) How design patterns solve design problems? 8
- (c) How do you organize and design catalogue of design pattern? 8
- (d) What are Creational Patterns? Also write the properties of Creational patterns for Software Architecture. 8