Hall Ticket No						Question Paper Code: ACS009



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Four Year B.Tech V Semester End Examinations (Regular) - November, 2018

Regulation: IARE - R16

OBJECT ORIENTED ANALYSIS AND DESIGN

Time: 3 Hours (IT) Max Marks: 70

Answer ONE Question from each Unit All Questions Carry Equal Marks All parts of the question must be answered in one place only

UNIT - I

1. (a) What are the various phases and workflows of a unified process for software development?

[7M]

- (b) Explain in detail about the conceptual model of Unified Modeling Language. [7M]
- 2. (a) What are the various elements in UML that may have instances. How do you denote object state in UML. [7M]
 - (b) Define UML? Discuss in detail about importance of modeling. [7M]

UNIT - II

- 3. (a) Explain in detail the Use Cases. Draw use case diagram for library management system. [7M]
 - (b) Define Advanced classes. Explain terms, concepts and common modeling techniques object diagram with suitable examples.

[7M]

- 4. (a) Discuss in detail about the Activity diagram with a suitable example.
- [7M]
- (b) Explain with an example, how use case modeling is used to describe functional requirements. Identify the actors, scenario and use cases for example. [7M]

UNIT - III

5. (a) What are State machines? Draw the State chart diagram for retail store management system.

[7M]

- (b) Discuss in detail about Process and Threads. Explain its common modeling techniques with necessary examples. [7M]
- 6. (a) List out the Events and Signals? Explain its terms, concepts and common modeling techniques with suitable examples. [7M]
 - (b) What do you mean by deployment diagram? Draw the deployment diagram for Tour management system. [7M]

$\mathbf{UNIT}-\mathbf{IV}$

1.	(a) What is GRASP: Explain the following GRASP patterns: Creator, information exper (b) Compare and contrast low coupling and high cohesion with suitable examples.	[7M]
8.	(a) Write short note on adapter, singleton, factory and observer patterns.(b) Discuss in detail about GRASP method for designing objects with responsibilities.	[7M]
	$\mathbf{UNIT} - \mathbf{V}$	
9.	(a) What is Domain model? Differentiate between a domain models with business model.(b) Draw the Sequence diagram that specifies the flow of control for telephone system.	[7M]
10.	(a) Explain the logical architecture and UML package diagram.(b) Explain Domain model refinement with suitable diagram.	[7M]