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## GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (OLD) EXAMINATION – WIN	TER 20	018
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Su	bject	Code: 140703 Date: 05/12/2018	3
	-	Name: Object Oriented Analysis Design And Uml 2:30 PM TO 05:00 PM Total Marks: 70	0
Ins	2.	Attempt all questions.  Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	What is object orientation? Explain OO themes. What is inheritance? List the different types of inheritance and explain how it encourages reusability and sharing.	07 07
Q.2		Define following Terms: Derived data, Abstract Class, Generalization, Multiplicity, Constrains, Metadata, Package. List all kinds of control information represented by Dynamic model. Prepare State chart diagram for Two Party Phone Call.  OR	07 07
	(b)	Describe guidelines for use case Models.	07
Q.3	(a)	Draw a sequence diagram for issuing a book and renewing a book in online library management system.	07
	(b)	What is concurrency? Explain 'aggregation concurrency' and 'concurrency Within an object' represented by state model with suitable example.  OR	07
Q.3	(a) (b)	Prepare sequence diagram for booking a train ticket on line.  Explain 'ordered', 'bags', 'sequences' in class diagram with suitable examples.	07 07
Q.4	(a)	Describe the criteria for discarding unnecessary and incorrect classes. Give	07
	(b)	example to justify the answer.  Define the purpose of following terms with suitable example and UML notations (i) swimlane (ii) use case generalization (iii) activity  OR	07
Q.4	(a)	Which are the different criteria to keep the right association in domain class Model.	07
	(b)	"Iterative development life cycle is better than the waterfall development life cycle." Explain with Example.	07
Q.5	(a)	Give the list of common architectural styles. Explain continuous transformation in detail.	07
	(b)		07
		OR	
Q.5	(a)	Explain the following terms in relation to class design. a. Refactoring b. Reification	07

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(b) Mention the importance of analysis and design stages in software development

process. Differentiate Domain analysis and Application analysis.

