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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, April - 2018

OBJECT ORIENTED ANALYSIS AND DESIGN

(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units, Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

	(25)	Marks)	
1.a)	What is the importance of modeling?	[2]	
∧ <u>(</u> b)	Explain why object oriented approach is preferable when compared to approaches?		
/ \ \ \ c)	What is visibility of an element owned by a package?	121	/
d)	What are the steps to model simple collaborations of class diagram?	[3]	,
e)	Distinguish between activity and action state in UML.	[2]	
f)	Explain briefly about usecase flow of events.	[3]	
g)	Discuss how to depict iterated and broadcast messages in interaction diagrams.	[2]	
h)	What are the properties of a well structured component diagrams?	[3]	
\wedge \cap i)	Enumerate steps to model concrete instances in UML.	[2]\	
/─\\j)	What is mode? How to organize nodes in UML?	[3]	1
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PART - B

(50 Marks)

2.a) Write about structural things of UML vocabulary. Give UML notation.

What are principles of modelling? Explain.

Explain briefly about following terms:

a) Stereotypes
b) Tagged Values
c) Constraints

[3+3+4]

What is a class diagram? What are the common properties and uses of class diagrams?

With reference to class diagrams, enumerate the steps to forward engineer.

b) With reference to class diagrams, enumerate the steps to forward engineer.

5.a) Enumerate steps to model vocabulary of a system.

Enumerate steps to model distribution of responsibilities in a system.

[5+5]

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www.FirstRanker.com www.FirstRanker.com What is meant by usecase? Explain about use case description with an example. 6.a) State and explain the common modeling techniques of usecase diagrams. [5+5] b) Explain about forking and joining concepts in activity diagram with an example. 7.a) Draw swimlane flowchart for financial accounting template and customize it to show b) your processes and procedures. [5+5]8.a) How will you model distribution of objects. What is an event? What are different types of events? [5+5]b) OR 9.a) Enumerate the steps in modeling timing constraints. Illustrate with a UML diagram. Consider an object diagram that models the distribution of certain objects in a real time b) system. Draw the diagram and explain briefly. [5+5]Draw an use case diagram for hospital information system aimed at collecting and storing complete information pertaining to the patients. Draw sequence diagram for hospital information system. [5+5] OR. Draw a diagram that show set of nodes and their relations for library management /system.../ b) Explain briefly about boundary, control and entity classes. Give suitable examples. [5+5]

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