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P15IS61 Page No		
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P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belagavi) Sixth Semester, B.E Information Science and Engineering Semester End Examination; May/June - 2018 Object Oriented System Development Time: 3 hrs Max. Marks: 100		
<i>Note:</i> Answer FIVE full questions, selecting ONE full question from each unit.		
UNIT - I		
a. With respect to object oriented modeling and design, explain the concept of Object Oriented (OO) themes.		
b. Explain the three models useful to model a system and the relationship among them.		
c. How can we decompose N-ary associations into Binary associations?		
a. Explain the concept of generalization and Inheritance. Write a class model for geometric figures.		
b. Write a short notes on :		
i) Enumerations ii) Multiplicity		
iii) Scope iv) Visibility		
UNIT - II		
3 a. What is an event? Explain different types of events along with UML notation for each.		
b. What do you mean by concurrency? Explain the different types of concurrency among objects.		
c. Draw a sequence diagram for a stock purchase using an online stock broker system.		
a. Define nested states. Draw a nested state for a phone line.		
b. What are the usecase model? Give the guidelines for constructing a usecase model.		
c. What is an Activity diagram? Explain with an example.		
UNIT - III		
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5 a. Explain how to find classes and keep right classes in domain class model with ATM example? b. Describe the questions that need to be answered for a system conception of an ATM. 6 a. Explain the steps required to construct an application state model. b. List the steps to construct an application intersection model. Explain any four. UNIT - IV

7 a. List the various decisions to the made during system design. Explain any two. 10 b. Describe the steps to design algorithm with examples. 10 8 a. Explain three steps used to improve the organization of class design. 6

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P1:	5IS61 Page No 2	
b.	In detail, explain the batch transformation and continuous taransformation architectural styles suited for the system design.	10
c.	Write a short note on handling boundary conditions in system design.	4
	UNIT - V	
9 a.	Explain the dynamics of client-dispatcher-server design pattern with a neat diagram.	10
b.	What is pattern? Explain briefly the template for pattern description.	10
10 a.	Illustrate with a neat diagram the static relationship in forwarder and receiver.	10
b.	Explain in-process quality metrics with an example.	10

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