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		(3 Hours) [Total marks: 10	00]
	N.B.	 Question 1 is compulsory. Attempt any four from remaining six. Assumption made should be clearly stated. 	
1.	(a)	Draw a class diagram for following information. Make use of qualified association. Explain any assumptions or design decisions that you make. The UK banking system consists of a number of banks. Each bank has a number of branches, each identified by a unique sort code. Banks maintain accounts, each with a unique account number. In addition, each account is held at a particular branch of the bank. Some accounts allow cheques to be written, where each cheque is identified with a cheque number.	10
	(b)	What criteria can one employ to partition classes	10
2.	(a)	Explain following concepts as applied to the dynamic modeling: - (i) Abstract class (ii) Multiple inheritance (iii) Protocol	10
	(b)	Discuss how cohesion and coupling affect the flexibility of static modeling of a system.	10
3.	(a)	Write short notes on (any two) (i) A 'package' in UML (ii) Company diagram in UML (iii) Class normalization for cohesion	10
	(b)	Differentiate between (any two) (i) State & Event (ii) Value & Reference semantics (iii) SA/SD and JSD	10
4.	(a)	Draw a use case diagram for employee payroll system. List all the assumptions taken into consideration for the system scope. Write use case description.	10
	(b)	What is importance of modeling? Explain Booch methodology.	10
5.	(a)	Explain collaboration diagrams with example.	10
	(b)	What criteria one can employ to partition classes	10
6.	(a)	Explain state chart diagram with example of "life cycle of a thread in java"	10
	(b)	Explain the concept of time constraints and duration.	10
7.	(a)	Discuss with example implementation architecture.	10
	(b)	Draw a component diagram for ATM system.	10
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