QP Code: 31175

(3 HOURS)

[Total Marks: 80]

	N.B.: (1) Question no. 1 is compulsory.	
	(2) Attempt any three questions from remaining.	
	(3) Assume suitable data wherever necessary.	
	Q1. (a) What is UML? Explain role of different UML diagrams in system design.	(10)
	(b) Explain DFD (up to two levels) with suitable example.	
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	Q2. (a) Explain different requirement gathering techniques used in system analysis.	(10)
	(b) Explain software development life cycle used for system analysis.	(10)
	Q3. (a) What is cost benefit analysis? Illustrate any one model of cost benefit analysis.	(10)
	(b) Explain Zachman's framework for software system design.	(10)
	Q4.(a) Draw the use case diagram of a library management system with extend, include	e and
	generalize relations between use cases.	(10)
	(b) What are characteristics of good graphical user interface? Draw GUI for o	nline
	course registration system.	(10)
	Q5.(a) Assume that the hospital management system is deployed using 3 tier architecture.	cture,
	explain its various components and its deployment with the help of diagrams.	(10)
	(b) Draw the sequence diagram for login procedure to a system. Include all pos	sible
	scenarios and draw its activity diagram also.	(10)
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3 5.	Q6. (a) Define cohesion and low coupling in system design? High cohesion and low coupling	ing is
	recommended for good system design. Justify.	(10)
	(b) Your college wishes to prepare and maintain the database system to track progre	
	the students who were recruited through college training and placement	cell.
	Prepare the proposal to design above system.	(10)
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