State and explain		
Objected Oriented and		
	Object relational databases.	
do we need B-trees?		
	(b) What is Query Optimization in I	
que. (5)	Cost based Optimization technic	
and REAC? (15)		

Roll No.	Total Pages : 3	
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DATAB	December, 2019 B.Tech. (CE/CSE/IT) - V SEMESTER ASE MANAGEMENT SYSTEMS (PCC-CS-501)	
Time : 3	Hours] Williams 228Cl 10 slov sdl [Max. Marks: 75	
Instructio	ons:	
I.	It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.	
(DE) 2.	Answer any four questions from Part-B in detail.	
644 3.h	Different sub-parts of a question are to be attempted adjacent to each other.	
	A (a) Explain Bell A - TRA9 model for c	
1. (a)	Explain briefly about Armstrong's axiom. (1.5)	
90.5	What is hashing? The months are a stand of (1.5)	
(c)	Explain briefly the usage of Intrusion Detection	
	Mechanism. (1.5)	
(d)	Briefly explain any <i>one</i> advantage of Distributed Databases. (1.5)	

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	(f)	What do you mean by query optimizatio	n in
		DDBMS?	(1.5)
	(g)	Differentiate between strong and weak entity.	(1.5)
	(h)	Write a short note on shadow paging.	(1.5)
	(i)	Briefly explain the usage of commercial DBMS.	(1.5)
	(j)	What is the role of Data manipulation lang	uage
		(DML)?	(1.5)
		PART - B	
2.	(a)	What are the different levels of data independe	nce
		Explain. A most enoncome root come rowant	(10)
	(b)	Explain the difference between specialization	and
		generalization.	(5)
3.	(a)	Explain Bell-la padula model for data	base
		security. a gnortamr. A toods vifished nielgz. (a)	(5)
	(b)	What is transaction? Explain the ACID properties	
		transaction.	(10)
4.	CHE SEE	plain Multivalued dependency in database with sui	
	exa	Databases.	(15)

(e) Write a short note on Candidate Keys.

(1.5)

5.	(a)	What is Decomposition? State and explain
		characteristics of decomposition. (5)
	(b)	Explain the difference between Objected Oriented and
		Object relational databases. (10)
6.	(a)	What is tree in DBMS? Why do we need B-trees?
		Explain briefly with example. (10)
	(b)	What is Query Optimization in DBMS, briefly explain
		Cost based Optimization technique. (5)