	-F4 IT 713011223 - FOMS (18)	143724	ATUT
Duratio	Note:- A)All the questions are compulsory.	ururus.	
	B)Each question carries equal marks.		
. 4	C)Figures (Diagrams /Charts) indicate full marks.		- 10 C
0.0	Attempt any Three of the following.		15M
1.	Differentiate between DBMS & file system.	C01/A	
ź.	Explain Data Models.	C01/U	
3.	Explain three levels of Atchitecture.	c01/U	š
· 4.		CO1/U	· · · · · ·
5.	Explain Building Blocks of Data Management.	COJ/R *	1929
	Write a short note on DDL (Data Definition Language)	CO2/R/A	
6.	What is SQL? Explain the following structure of SQL	<u></u>	a.
	queries with appropriate example.	· .	
	i)select clause ii)from clause.	° ≉**	
Q.2	Attempt any Three of the following:		15M
1. 7	Explain the term aggregation and Generalization with	CO1/U	
- 08	example.		
2.		C01/U	· · ·
•	Explain E-R diagrams and it components.	CO1/A	
3.	Draw an E-R diagram and reduce it to relational	11日間 - 11日日	2 2
	database model for a university database for scheduling	÷.	
	of classrooms for final exams. This database could be		ii i
	modified using entities as:-		
6	exam(course_name,section_number,room_number,time)		*
1	Course(name,department,C_number)		
	room(r_numbaer. capacity, building)		
4.	Write a short note on subclass and superclass.	CO1/R	
5.	What is strong entity and weak entity?	CO1/R/U	
-6.	Explain attributes and their types with example.	COI/U	
Q.3	Atternet only Three of the following:		15M
	Attempt any Three of the following:	CO1/R	8. .
1.	Write a short note on functional dependencies.	CO1/R/U	. * %
2.	What is normalization? Explain 1NF, 2NF with suitable	E E	
	example.	CO1/R	÷.,
3.	Describe decomposition. What are desirable properties	COUR	
	of decomposition?		1 <u>2</u>
4.	Write a short note on BCNF.	CO1/R	
5.	Explain type of functional Dependencies.	C01/U	
6.	Write the functional Dependencies properties.	CO1/R	
Q4.	Attempt any Three of the following.		15M
1.	Define views, What are the types of views?	C01/R/U	
2.	Explain describe table command with example.	CO1/A	-
2.			
,	a)Create table b)Alter table .	C01/U 🤻	
3.	Explain various SET Operations.	f)
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What are triggers? Give an example. What are different file organizations? Define query? Explain steps of query processing. CO1/R C01/Å COI/R/U Attempt any Three of the following. C03/R Write a short note on commit and rollback. 2.5 CO3/R/U What is transaction? Discuss the state transition diagram × 3 **.** , and properties of transaction. CO3/R/U What is dead lock? Explain how deadlock detection and 3: prevention is done. CO3/U Explain various problem of concurrent executions. CO3/R 4. Short note on shadow paging. C03/R/U What is log based recovery? Explain types of transaction 5. 6. . log.

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