Seat Number: - ____

Duration: 2 ^{1/2} Hrs	[4(s - H219A23DS (10)	Marks:	- 75
Note: - 1) All questions ar			
2) Figures to the r Q.1. Attempt any 4 of the		(20M)	
1) Explain various levels of database abstraction.		CO1(R))
2) Explain Record based and Hierarchical models.		CO1(U))
3) Draw an ER diagram for a hospital.		CO1(U,	.A)
4) Explain how to convert attribute in ER to relational table.		CO1(U))
5) Explain various DDL statements with example.		CO3(U,	,A)
6) Explain 'Order by and w	here clause' with example.	CO1(U.	,A)
Q.2. Attempt any 4 of the	following:		(20M)
1) What is constraint? Explain Entity Integrity constraints.		CO2(R.	,U)
2) Explain number functions with examples.		CO3(A,	,U)
3) What is Cartesian product? Explain.		CO3(U.	,A)
4) Explain natural join with example.		CO3(U	,A)
5) Explain correlated subquery with example.		CO3(U	,A)
6) Explain following opera	tors of subquery with example:- ALL, EXISTS.	CO3(U	,A)
Q.3. Attempt any 4 of the	following:		(20M)
1) What are types of function	onal dependencies?	CO4(U)
2) Explain first normal form	m (1NF) with example.	CO4(U	,A)
3) What is projection opera	ntor (π) ? Explain with example.	CO4(U	,A)
4) Write short note on role	of database administration.	CO5(R))
5) What is view? Explain in	ts types.	CO5(U)
6) Write short note on revo	oking of privileges.	CO6(R)
Q.4. Attempt any 5 of the following:			(15M)
1) What do you mean by data independence?		CO1(R))
2) Write short note on attri	butes.	CO2(R)
3) Explain concept of forei	ign key.	CO2(R	,U)
4) Explain case manipulati5) Write short note on deco		CO3(U CO4(R)
6) Write short note on mod	lifying a views.	CO5(U	()