Total	No.	of Questions: 12]	SEAT No.:			
P1800		[4761] - 302	[Total No. of Pages :2			
		S.Y.M.C.A. (Engg.)				
DATABASE MANAGEMENT SYSTEM						
	(2013 Course) (Semester - III) (410902)					
Time: 3 Hours]			[Max. Marks : 50			
Instr	ucti	ons to the candidates:				
1	I)	Neat diagrams must be drawn wherever necessary.				
2	2)	Figures to the right side indicate full marks.				
•	3)	Assume Suitable data if necessary.				
Q1)	a)	Explain advantages and disadvantages of DB	MS approach. [4]			
	b)	Describe Data Abstraction in detail.	[4]			
		OR				
Q2)	a)	Discuss advantages and disadvantages of diffe	erent Database Models.[4]			
£-)	b)	What is Data Independence? Give example.	[4]			
	U)	what is Data independence? Give example.	ניין			
Q 3)	(23) Construct ER diagram of Hospital Database System. Consider different doctors, patients, nurses, test & different wards. Convert it into Relational schema. [10]					
		OR				
Q4)		nstruct the ER diagram of Library Managemer nvert it into Relational schema.	nt consider required data. [10]			
Q5)	a)	Write a short note on any 4 Codd's Rules.	[4]			
	b)	What is view? Create a view for Employee da	tabase. [4]			
		OR				

Explain different keys used in relational model & domain constraints

Explain - how Group By clause works? What is the difference between

Q6) a)

b)

with example.

where and having clause?

P.T.O.

[4]

[4]

Q 7) a)	What is Trigger? Explain types of triggers with example.	
b)	Write a short note on Aggregate Functions.	[4]
	OR	
Q8) a)	a) a) Explain with example PL/SQL procedure.	
b)	Explain Nested Queries with example.	[4]
Q9) a)	a) Explain:	
	i) Multivalued Dependencies.	
	ii) Overlapping Candidate Key.	
b)	Explain Trivial dependency.	[4]
	OR	
Q10)a)	The closure set of F of functional dependencies for relational s R = (A, B, C, D, E, F, G)is	
	A->B	
	Discuss the different dependencies present in this set. Normalize it 3NF.	
b)	With example explain Lossy and Lossless decomposition.	[4]
<i>Q11)</i> a)	How you relate Big Data with Non Relational Database.	[4]
b)	Explain the concept of Big Data with example.	[4]
	OR	
<i>Q12)</i> a)	Discuss HBASE architecture in detail.	[4]
b)	Explain - No SQL.	[4]

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