Total	l No.	of Questions : 10] SEAT No. :
P33	889	[Total No. of Pages : 2
		[5353] - 592
		[5353] - 592 T.E. (IT)
		DATABASE MANAGEMENT SYSTEM
		(2015 Pattern)
Time	24	2 Hours] [Max. Marks: 70
		ons to the candidates:
111311	<i>1)</i>	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.
	2)	Neat diagrams must be drawn wherever necessary.
	3)	Figures to the right indicate full marks.
	4)	Assume suitable data if necessary.
Q 1)	a)	State & explain the disadvantages of File Processing System. [5]
	b)	Define entity & entity-set. What is E-R model? [5]
		OR
Q 2)	a)	What is query? What do you mean by correlated subquery? [4]
	b)	List the properties of decomposition. Explain loss less join with example.
		[6]
(2)	۵)	What are the store followed in a series expite (V) as more adia transportion?
Q 3)	a)	What are the steps followed in executing write (X) command in transaction? [5]
	1 ₂)	
	b)	Define query processing. What are the steps involved in query processing? [5]
		OR
O ()	,	
Q4)	a)	When are two schedules said to be view equivalent? [6]
	b)	Why are cursors necessary in Embedded SQL? [4]
Q 5)	a)	What is a checkpoint? Explain the operations performed by a system
		during checkpoint. Explain the recovery mechanism during system crash.
	b)	What are the design considerations for distributed database? [8]
		OR O

Q6) a)	What are the key elements of Parallel DB processing? Explain.	8]
b)	Explain Time-Stamp ordering protocol.	8]
Q7) a)	Draw & explain HBase data model.	6]
b)	Compare JSON & XML with example.	6]
c)	Explain NoSQL concept with MongoDB example.	6]
	OR	
Q8) a)	Write a short note on (any 3): [13]	2]
	i) SQLite database.	
	ii) Mobile database.	
	ii) Mobile database.iii) Internet database.iv) Cloud database.	
	iv) Cloud database.	
b)	How data validation is done in XML?	6]
Q9) a)	What is data warehousing? Write the benefits & limitations of da warehousing.	ta 8]
b)	Explain the process of knowledge discovery with diagram.	8]
	OR N.O.	
Q10) a)	Write a short note on:	8]
	i) Machine learning for Big data.	
	ii) Business Intelligence.	
b)	Explain classification in detail with example.	8]
	what is data warehousing? Write the benefits & limitations of data warehousing. [Standard of the process of knowledge discovery with diagram. OR Write a short note on: i) Machine learning for Big data. ii) Business Intelligence. Explain classification in detail with example.	