Total No.	o. of Questions : 10] SEAT No. :	
P3389	[Total No. of]	Pages: 2
	T.E. (IT)	
	DATABASE MANAGEMENT SYSTEM	
	(2015 Pattern)	
<i>Time</i> : 2 <sup>1</sup>	2½ Hours] [Max. M	arks: 70
Instructi	tions to the candidates:	
1) 2) 3) 4)	Neat diagrams must be drawn wherever necessary.  Figures to the right indicate full marks.	
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<b>Q1)</b> a)	State & explain the disadvantages of File Processing System.	[5]
b)	Define entity & entity-set. What is E-R model?	[5]
	ORO	
<b>Q2)</b> a)	What is query? What do you mean by correlated subquery?	[4]
b)	List the properties of decomposition. Explain loss less join with e	example. <b>[6]</b>
<b>Q3)</b> a)	What are the steps followed in executing write (X) command in trans	nsaction?
b)	processing?	n query [5]
<b>.</b>	OR	Y
<b>Q4</b> ) a)	When are two schedules said to be view equivalent?	[6]
b)	Why are cursors necessary in Embedded SQL?	[4]
<b>Q5)</b> a)	What is a checkpoint? Explain the operations performed by a during checkpoint. Explain the recovery mechanism during systematics.	•
b)	What are the design considerations for distributed database?	[8]
	OR	
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<b>Q6</b> )	a)	What are the key elements of Parallel DB processing? Explain.	[8]
	b)	Explain Time-Stamp ordering protocol.	[8]
		(2). X	
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):	[2]
		i) SQLite database.	
		ii) Mobile database.	
		iii) Internet database.	
		iv) Cloud database.	
	b)	How data validation is done in XML?	[6]
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Q9)	a)		[8]
	b)	Explain the process of knowledge discovery with diagram.	[8]
		Explain the process of knowledge discovery with diagram.  OR	
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]
		Write a short note on:  i) Machine learning for Big data.  ii) Business Intelligence.  Explain classification in detail with example.	