Total No. of Questions : 10]	26	SEAT No.:	
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T.E. (Information Technology)

		DATABASE MANAGEMENT SYSTEM	I
		(2015 Pattern)	
		/2 Hours] ons to the candidates:	[Max. Marks :70
	1)	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)	Figures to the right side indicate full marks.	
Q1)	a)	Describe the three level architecture of DBMS. Explain for achieving data independence.	n how it is useful [5]
	b)	When are two schedules said to be view equivalent?	[5]
	1	OR	
Q 2)	a)	List the responsibilities of DBA.	[5]
	b)	Describe DROP TABLE command of SQL with b CASCADE and RESTRICT.	oth the options [5]
Q 3)	a)	Write short note on: Mapping of ISA relationship of tables.	E - R diagram to
	b)	State and explain (any 6) Codd's norms for RDBMS.	[6]
		OR	8:
Q4)	a)	What are the measures of Query cost?	9 [5]
	b)	Why are cursors necessary in embedded SQL?	[5]
Q5)	a)	Draw and explain the architecture of Parallel databases	. [6]
	b)	What is a checkpoint? List the operations to be perform when a checkpoint is to be taken. What does the recover there is a crash.	

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		OR	
Q6)	a)	Explain Query optimization with respect to SQL databases.	[8]
	b)	Discuss and explain data replication and allocation issues in Distribudatabase system.	uted [8]
Q 7)	a)	Explain XML data model. List advantages of XML.	[8]
	b)	Explain in brief the advantages of Mongo DB over RDBMS. OR	[8]
Q8)	a)	Discuss data management issues in cloud databases.	[8]
	b)	What is HDFS? Draw and explain the architecture.	[8]
Q9)	a)	Explain Association rules with Support and Confidence measures.	[6]
	b)	Explain architecture of data mining system.	[6]
	c)	Explain the conceptual models for data ware house. OR	[6]
Q10) a)	Write a short note on: (any 3)	[12]
		i) Data processing techniques.	S.
		ii) OLAP	
		iii) Machine learning for business intelligence.	
		iv) Big data features	
	b)	Explain KDD in detail.	[6]
		 i) Data processing techniques. ii) OLAP iii) Machine learning for business intelligence. iv) Big data features Explain KDD in detail. 	