<b>Γotal No. of Questions: 10]</b>	90	SEAT No.:
P1762		[Total No. of Pages : 2

		T.E. (Information Technology)	
		DATABASE MANAGEMENT SYSTEN	M
		(2015 Pattern)	
		Hours]	[Max. Marks :70
Instr	ructio	ons to the candidates:	C
	<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)	Figures to the right side indicate full marks.	b
Q1)	a)	Describe the three level architecture of DBMS. Explain for achieving data independence.	in how it is useful [5]
	b)	When are two schedules said to be view equivalent?	[5]
		OR	
<b>Q</b> 2)	a)	List the responsibilities of DBA.	[5]
	b)	Describe DROP TABLE command of SQL with CASCADE and RESTRICT.	both the options [5]
			S
Q3)	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	9.
Q4)	a)	What are the measures of Query cost?	[5]
	b)	Why are cursors necessary in embedded SQL?	[5]
Q5)	a)	Draw and explain the architecture of Parallel databases	s. <b>[6]</b>
	b)	What is a checkpoint? List the operations to be perform when a checkpoint is to be taken. What does the reco	•

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<b>Q6</b> )	a)	Explain Query optimization with respect to SQL databases.	[8]
	b)	Discuss and explain data replication and allocation issues in Distrib database system.	uted [8]
Q7)	a)	Explain XML data model. List advantages of XML.	[8]
	b)	Explain in brief the advantages of Mongo DB over RDBMS.	[8]
		OR	
<b>Q8</b> )	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.	[6]
		OR	
Q10	) a)	Write a short note on: (any 3)	[12]
		i) Data processing techniques.	$\sim$
		ii) OLAP	
		iii) Machine learning for business intelligence.	
		iv) Big data features	
	b)	Explain KDD in detail.	[6]
Q		ii) OLAP iii) Machine learning for business intelligence. iv) Big data features Explain KDD in detail.	