SEAT NO.	:	

2

[Total No. of Pages: 2]

B.E. 2008 (Computer Engineering) Advanced Databases (Elective - III) (Semester - II)

Time	: 3 Но	ours Max. Marks	: 100
1) 2) 3) 4) 5)	Answe Neat of Figure Section Section	o the candidates: ers to the two sections should be written in separate answer books. diagrams must be drawn wherever necessary. es to the right side indicate full marks. in I: Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6 in II: Q.7 or Q.8, Q.9 or Q.10, Q.11 or Q.12 in E Suitable data if necessary	
Q1)	a) b)	SECTION I Compare the Round-robin and Range partitioning Techniques . Explain Fragment and Replicate Join.	[8]
Q2)	a) b)	OR What is meant by Skew? Explain the different ways of handling Skew. What is the difference between interquery and intraquery parallelism?	[10] [6]
Q3)	a)	If we are to ensure atomicity, all sites in which a transaction T is executed must agree on the final outcome of the execution. T must either commit at all sites or it must abort at all sites. Describe the Protocol used to ensure this property.	[8]
	b)	Explain in detail Replication with respect to Distributed Databases. OR	[10]
Q4)	a)	Remote backup systems and replication in Distributed Databases are two alternative approaches for providing high availability. Explain the difference between them.	[6]
	b)	How Deadlock handling is done in Distributed Databases? Explain.	[12]
Q5)	a) b)	How XML data is stored in Relational Databases? Explain. Explain in detail XML schema. OR	[8] [8]
Q6)	a) b)	Explain in detail XQuery. Write short note on : XML applications. SECTION II	[10] [6]
Q7)	a)	In real world data, tuples with missing values for some attributes is a common occurrence. Describe various methods for handling this problem.	[10]
	b)	Explain with suitable example any two operations on multidimensional data. OR	[6]
Q8)	a)	Explain the following with respect to data preprocessing i)Data reduction ii) Data Decretization	[6]
	b)	Explain different conceptual schemas design for data warehouse with suitable example.	[10]
Q9)	a) b)	Explain classification and prediction with suitable example. Explain outlier analysis.	[8]

OR

Q10)	a) b)	How are decision trees used for classification? Explain with example. State and explain apriori algorithm.	[8]
Q11)	a) b)	Define Information retrieval System. How it is different from Database system? Explain the following terms i) Web Crawlers ii) Vector space model iii) Synonyms iv) Proximity	[6 [12
		OR	
Q12)	a)	How to measure retrieval effectiveness?	[6
	b)	Explain the following terms	[12

i)Page Rank ii) Full text retrieval iii) Ontologies iv) Homonyms