Total No.	o. of Questions : 12]	EAT No. :			
P2006	6	[Total No. of Pages : 3			
	[5254]-177				
	B.E. (Computer Engineering)	<u>r</u>)			
	ADVANCE DATABASES				
	(2008 Pattern) (Elective - II	\mathbf{II})			
Time: 3 Hours]		[Max. Marks : 100			
Instruction	tions to the candidates:				
1)					
2)	Answer to the two Sections should be written in separate book.				
3)	Neat diagrams must be drawn wherever necessary.				
4)	,				
5)	Assume suitable data, if necessary.				
	SECTION - I				
Q1) a)	State and explain different parallel system architecture [8				
b)	What factors could result in skew and what can be done to reduce the skew?				
	When a relation is partitioned on one of its attribute by				
	i) Round Robin partitioning				
	ii) List partitioning				
	OR				
Q2) a)	What is parallelism? Explain the difference between interquery & Intraquery parallelism [8]				
b)	What are the different performance measure param Explain in brief.	neters in parallel system? [8]			

- Q3) a) What is deadlock? How it has been handled in distributed system? [8]
 - b) Explain distributed transaction management and its types. [8]

OR

- Q4) a) Explain the types of storage mechanism and failure in distributed system.[8]
 - b) State and explain distributed system architecture

[8]

Q5)	a)	Why do we have the XML DTD? Explain with an example.		
	b)	What is the role of middle tier? How it helps in client serve communication? [10]		
		OR		
Q6)	Write short note on the following.			
	a)	XQUERY		
	b)	Thin & Thick Client		
	c)	3tier architecture		
		SECTION - II		
Q7) a)		What are you mean by data cleaning? Explain different methods of data cleaning? [8]		
	b)	Explain the components of data warehouse with a neat diagram. [10]		
		OR		
Q8)	a)	Differentiate between OLAP & OLTP. [6		
	b)	Explain the following operation on the multidimensional data [6]		
		i) Roll up and drill down.		
		ii) slicing & dicing		
	c)	What are different types of schema? Explain the design a galaxy schema[6]		
Q9)	a)	What is clustering? Explain the K-means clustering algorithm. [8		
	b)	What is Decision tree? Explain ID3 algorithm to create decision tree.[8		
		OR		
Q10)a)		What is frequent item set? State and explain Apriori algorithm? [8		
	b)	Explain the following terms [8		
		i) Machine learning		
		ii) Outlier analysis.		

Q11)a)	What you mean by relevance ranking? Explain any methods of relevance ranking [8]		
b)	Explain the following:		[8]
	i)	Ontology	
	ii)	Stop words	
		OR	
Q12)a)	Wh	at is page ranking and popularity ranking? Explain in brief.	[8]
b)	Exp	Explain the following terms	
	i)	Web crawlers	
	ii)	Vector space model	

