Total No of Questions: [12]

SEAT NO.:

[Total No. of Pages: 02]

[4366]- 503

TYMCA (Engg. Faculty) ADVANCED DATABASES (Semester - V) (2008 Pattern) (710903)

MAY 2013 EXAMINATIONS

	Time: 3 Hours] [Max. M] Instructions to the candidates:			
1 2) Ans	wers to the two sections should be written in separate books. t diagrams must be drawn wherever necessary. ume Suitable data if necessary.		
		SECTION I		
Q1)	a)	With suitable diagrams explain the steps in query processing.	[5]	
	b)	Explain the external sort merge algorithm with suitable example.	[6]	
		OR		
Q2)	a)	What are the measures of query cost?	[5]	
	b)	Explain the different ways of executing pipelines.	[6]	
Q3)	a)	Explain Transaction Server Process Structure.	[6]	
	b)	What are the implementation issues of distributed systems?	[6]	
		OR		
Q4)	a)	Explain Speed up & Scale up.	[6]	
	b)	Explain centralized and client server database architecture.	[6]	
Q5)	a)	Explain object identity and reference type?	[6]	
	b)	Why OODBMS is required? Differentiate between DBMS, RDBMS and OODBMS.	[6]	
26)	-)	OR Participation of the state o		
26)	a)	Explain Array and Multiset in SQL with example.	[6]	
	b)	Explain persistent C++ system.	[6]	

SECTION II

.03vd\nid-igi	27)	a) While analyzing the data, it was found that many tuples have no recorded values	[6]
		for several attributes. How this problem of missing values can be solved?	
		b) Explain snowflake schema for multidimensional database.	[6]
		OR	[6]
	(8)	a) Explain in brief OLAP. What are the possible operations on cube?	[6]
		e) Explain star schema for multidimensional database.	[6]
2	(9)	Form clusters using clustering K-Means algorithm. Use appropriate distance formula.	[8]
60		RID Age Years of Service 1 30 5 2 50 25 3 50 15 4 25 5 5 30 10 6 55 25	
		b) Explain outlier analysis.	[4]
		OR	
5	(10)	a) Find frequently occurred item using apriori algorithm.	[8]
		TID ITEM 100 1,3,4	
		200 2,3,5,	
		300 1,2,3,5 400 2,5	
	,	e) Explain descriptive & predictive data mining.	[4]
Q	11)	Describe the ranking using TF-IDF.	[8]
	1	Define the following terms. 1) Hub 2) Authority 3) Web crawler	[3]
Q	12)	OR Describe the popularity ranking.	[8]
	1	Define the following terms-	[3]
		1) Ontology 2) Search engine spamming 3) False positive	