MCA-Serm IV (CBGS)

Advance Database theory & Applications.

QP Code: 25328

[Total Marks: 80

(3 Hours)

N.B. :		 Question No.1 is compulsory. Attempt any four from the remaining six questions. 	
1.	(a)	Briefly compare any three following concepts	(12)
		A. Data warehouse and Data mart.B. OLTP and OLAP.	
		C. ROLAP and MOLAP.	1
	(b)	D. Bloom Join and Semi Join. Describe how the scanning, sorting and join operations can be	(08)
		parallelized using Data partition techniques.	
2.	(a)	Explain KDD process steps in detail with suitable diagram.	(07)
	(b)	Explain complex and structure data types in ORDBMS.	(08)
3.	(a)	What is Association Rule mining? Explain Apriori Algorithm with example.	
	(b)	What is data staging? Explain ETL process in data warehouse with example.	(08)
4.	(a)	Explain 2PC protocol in details with suitable example.	(07)
27.5	(b)	Explain major functions of OLAP with examples	(08)
5.	(a)	What are the challenges in implementing ORDBMS? Explain them briefly.	(07)
	(b)	Describe K-Means chustering with suitable example.	(08)
6.	. (a)	Explain Star schema, Snowflake schema and Fact constellation with suitable examples.	(07)
	(b)		(80)
7	. W	ite Short Notes on any three:-	(15)
	a) Data quality		
		b) Parallel DB Architectures	
		c) Web usage mining	
		d) Meta data e) Multimedia database	
		C) International desiration	