Total No	o. of Qu	estions : 10]	SEAT No. :	٦
P3133	3	[5154]-699	[Total No. of Pages :	2
		B.E. (Information Techno	ology)	
		BUSINESS INTELLIGE	0. /	
(2012	2 Cou	rse) (Semester - I) (Elective - II)	(414457 A) (End Sem.)	
Time : 2	½ Hour	rs]	[Max. Marks : 7	0
Instructi 1) 2) 3) 4)	Answe Neat o Figur	the candidates: er Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8 diagrams must be drawn wherever necessar ees to the right indicate full marks. ne suitable data if necessary.		
Q1) a)	Exp	plain BI with different types of Busines	s Models. [4]
b)		at are the different types of facts use plain in detail.	d in data warehouse design [6	
		OR		
Q2) a)	Exp	olain following operations of OLAP wit	th suitable example. [6]
	i)	Drill-down		
	ii)	Pivot		
	iii)	Dice		
b)	Exp	plain in short Data profiling and Data L	inage report. [4	-]
Q3) a)	Wri	te a short note on multi-valued dimensi	on and dimesion attributes.[4	ŀ]
b)	_	blain dimensional model for retail sales east one fact table and two dimensiona	•	
		OR		
Q4) a)		at are the common data anomalie cess? How are they handled?	s encountered during ETI [4	
b)	Wri	ite short note on:	[6]
	i)	Star schema.		
	ii)	Fact constellation schema.		
	iii)	Snow flake schema.		

Q5)	a)	How does the metadata layer, presentation layer, and Data layer support the Reporting architecture of Data warehouse? [8]			
	b)	What is Materialized view? Explain with example. What are the advantages of it? [8]			
	OR				
Q6)	a)	Write short note on: [8]			
		i) Dashboards as Reporting tool			
		ii) Adhoc Reporting			
	b)	Explain ETL scheduling. How data level security is handled in ETL process. [8]			
Q7)	a)	What is clustering? Explain K-means clustering algorithm. Suppose the data for clustering $\{2, 4, 10, 12, 3, 20, 11, 25\}$. Given $K = 2$. Cluster the given data with K-means algorithm. [8]			
	b)	Compare and contrast In-DB and In-memory analytics. How Google analytics works? [8]			
		OR			
Q8)	a)	Define Data visualization and list its major advantages. List in brief different directions in data visualization. [8]			
	b)	Explain the process of text-mining. What is the role of inverted index in text mining? [8]			
Q9)	Writ	te short notes on any 3 of following: [18]			
	a)	Spotfire			
	b)	Log based change data capture			
	c)	Real time BI			
	d)	My Report			
		OR			
Q10) a)	What is agile Business Intelligence? How does it support and enhance business operations? [8]			
	b)	Explain Cloud Business Intelligence Architecture with the help of neat diagram. [10]			