Total No.	of Questions: 10]	SEAT No.:
P3182	5	[Total No. of Pages : 2
	[5354]-699	
	B.E.	
	BUSINESS INTELLIC	CENCE
	(2012 Pattern) (Elective - II) (
<i>Time</i> : 2½		[Max. Marks :70]
	ons to the candidates:	[112.000 112.01.00 17.0
1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7	or Q8, Q9 or Q10.
2)	Neat diagrams must be drawn wherever necessary.	
3)	Figures to the right indicate full marks. Assume Suitable data if necessary.	
Q1) a)	Define BI. List at least four BI tools.	(6)
b)	Draw the architecture of Data Warehouse	
	OR	[6]
Q2) a)	Virite a short note on OLAP Define data cube in context of OLAP vistem. What are the different operations that can be performed on a lata cube. [6]	
b)	Draw and explain the dimension model for the following scenario. A bookshop selling books of different categories such as textbooks, language books and novels. It maintains an Online Book database for customers to buy books online. The bookshop may have several branches in different locations. Model should consist of atleast 1 fact table and 2-3 dimension tables. [4]	
Q3) a)	Explain transaction, recurring/periodic and of dimensional modeling.	ad accumulating snapshot types [6]
b)	Explain the need and process of Change	

What are aggregate fact tables? What is its importance? Justify it with **Q4**) a) suitable example. **[4]**

What is meant by loading in ETL? Explain in short initial loading, b) incremental loading and full loading. **[6]** **Q5**) a) What is materialized view? Give an example of materialized view and snapshot materialized view. Explain with an example of different security levels in BI reports. [8] b) Draw the different Query Rewrite steps. How Query rewrite is different **Q6**) a) from cost based query rewrite? [8] Define Dashboard. Which softwares are used in Dashboard creation? b) Create and explain one scenario for Dashboard presentation. **Q7**) a) What is clustering? How it is different from classification? Discuss the k-means algorithm for clustering with the help of an example. [8] b) Explain Components and applications of time-series analysis. [8] OR What is classification in context of data mining? Explain decision tree **Q8**) a) classification with the help of an example. [8] Compare and contrast In-DB and In-memory analytics. Write a note b) on Google analytics case study. [8] What kind of data warehouse application is suitable for Hive? What **Q9**) a) are the types of tables in Hive? [8] What are the different types of BI? Explain Agile BI and Embedded b) BI in detail. ** * * * Aller of the state of **Q10**) Write on following: (any 3): BI on Cloud a) b) BI tool: QlikView Compare and Contrast Pig and Hive c) Tableau d)