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P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belagavi) Second Semester, M.Tech Computer Science and Engineering (MCSE) Semester End Examination; May / June - 2018 Business Intelligence and its Applications			
Time: 3 hrs	Max. Marks: 100		
<i>Note:</i> Answer <i>FIVE</i> full	l questions, selecting ONE full question from each unit. UNIT - I		
	date-driven approach is preferred over query-driven approach for the tiple heterogeneous information sources.		
b. With the help of di	iagram, list and explain the phases of a generic BI program. 10		
2 a. In a data warehou MOLAP technique	use technology, describe a multiple dimensional view using ROLAP and 10 es.		
b. Briefly explain th process model.	he benefits of having information flow embodied as part of a business 10		
1	UNIT - II		
3 a. Briefly compare th	ne following concepts :		
i) Data cleaning, d	data transformation, Refresh 10		
ii) Enterprise ware	ehouse, data mart, virtual warehouse		
b. Discuss predictive	e analytics. 10		
4 a. Discuss the proces	ssing stages of an information flow: 10		
b. Briefly explain the	e formal frameworks used for information and activity modeling. 10		
	UNIT - III		
5 a. Suppose that a dat	ta warehouse consist of the three dimensions time, doctor and patient and		
the two measures of for a visit.	count and charge, where charge is the fee that a doctor charges a patient		
i) Enumerate the warehouses	ree classes of schemes that are popularly used for modeling data 10		
ii) Draw a schema listed in (i)	a diagram for the above data warehouse using one of the schema classes		
b. With the help of d	diagram, briefly explain the 'Conduct, Information Consumer Interviews' 10 irement analysis process.		
1 1	given in question no. 5(a)		
i) Starting with t	the base cuboid (day, doctor, patient), what specific OLAP operations ormed in order to list the total fee collected by each doctor in 2004?		
	same list, write an SQL query assuming the data is stored in relational the schema fee (day, month, year, doctor, hospital, patient, count, charge)		

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b. With the help of diagram, briefly explain the synthesizing requirements phase of data requirements analysis process.

UNIT - IV

7 a.	. List and explain zone of the guidelines to be considered while laying out a BI dashboard.	
b.	. Briefly explain the value drivers relevant to at the enterprise level.	
8 a.	. Write a note on data latency and data synchrony.	
b.	Discuss Business Intelligence user types.	10
	UNIT - V	
9 a.	Write short note on:	
	i) Scorecard and dash boards	10
	ii) Integrated analytics	
b. Lis	List and briefly write different kinds of Query and reporting that are expected in a	10
	BI environment.	
10 a.	Write note on:	
	i) Event, Stream processing	10
	ii) Data mining tasks	
b.	List and explain key factors that must be considered when detailing any component of the	10
	data integration framework.	10

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