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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)
Fifth Semester, Master of Computer Applications (MCA)

Semester End Examination; Dec - 2016/Jan - 2017
Business Intelligence-Data Warehousing and Analytics

Time: 3 hrs

Business Intelligence-Data warehousing and Analytics

Max. Marks: 100

Note: Answer *FIVE* full questions, selecting *ONE* full question from each unit.

UNIT - I

	UNIT - I				
1 a.	Explain structured, semi-structured and unstructured data with examples.	12			
b.	b. Why do we need core business function? List few common core business functions. Describe				
	the core business functions with an example.				
2 a.	a. Describe the different OLAP architectures.				
b.	Bring out the differences between OLTP and OLAP.				
c.	c. Suppose that a data warehouse consists of three dimensions time, doctor and patient, and the				
	two measures count and charge, where charge is the fee that a doctor charges a patient for a				
	visit. Draw a star schema for the data warehouse.				
	UNIT - II				
3 a.	Briefly explain the common OLAP operations on multidimensional data with an example for each.	12			
b.	Explain how BI contributes to visibility into enterprise performance.	8			
4 a.	What is Business Intelligence? Explain the important features of Business Intelligence.	10			
b.	Bring out the differences between,	10			
	i) Enterprise Resource planning and BI ii) Business analytics and BI.				
	UNIT - III				
5 a.	Differentiate between casual and power users.	5			
b.	Describe BI component framework.	10			
c.	Explain any five best practices to be followed in BI space.				
6 a.	State the differences between data warehouse and data marts.				
b.	What are the differences between top-down approach and the bottom-up approach for	5			
	building a data warehouse?	J			
c.	What are the advantages of data integration? Explain the two approaches for data integration.	10			
	UNIT - IV				
7 a.	Explain the various types of facts with an example for each.	10			
b.	. Explain the different approaches for handling a slowly changing dimension.				

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8 a	. Explain the four components of metric data: subject, quantum, stratum and application. Use an	5
	example to explain your answers.	3
b.	What is KPI? List few sample KPI employed for a restaurant case study by,	
i) Employee Training Management Division		1.5
	ii) Help desk division	15
	iii) Human capital and training management division.	
	UNIT - V	
9 a	. Describe the usage of KPI in companies.	8
b	. Explain the different types of common report layout.	12
10a	. Describe the characteristics of Enterprise reporting in OLAP world.	10
b	. What are Dash Boards? Explain the types of Dash boards.	10

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