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

(An Autonomous Institution affiliated to VTU, Belagavi)
Fifth Semester, Master of Computer Applications (MCA)
Semester End Examination; Dec - 2017/Jan - 2018
Business Intelligence-Data Warehousing and Analytics

Time: 3 hrs Max. Marks: 100

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

## UNIT - I

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1 a.	Discuss the following categories of IT Applications giving suitable examples for each :			
	i) On-line Transaction processing system			
	ii) Business Process / Model Innovation Application			
	iii) Departmental IT Application.			
b.	Discuss the characteristics of un-structured, semi-structured and structured data.	10		
2 a.	Discuss the advantages and disadvantages of different types of OLAP architecture.	6		
b.	Compare the features of OLTP and OLAP.	10		
c.	Briefly explain the data models for OLAP.	4		
	UNIT - II			
3 a.	Explain the common OLAP operations available on multidimensional data with suitable example.	10		
b.	List the difference between ERP and BI.	5		
c.	Differentiate Business Intelligence and Business Analysis.	5		
4 a.	Discuss the important features of BI and the types of decisions supported by BI with a neat diagram.	12		
b.	Explain the role of OLAP tools in the BI architecture with a neat diagram.	8		
	UNIT - III			
5 a.	What is data profiling? Discuss when to conduct and how to conduct data profiling?	12		
b.	Discuss the four components of administration and operation layers of BI component framework with a neat diagram.	8		
6 a.	List and explain the BI application for business solution.	10		
b.	Differentiate data integrity and data quality.	10		
	UNIT - IV			
7 a.	Discuss the SMART test for metric relevance to business.	5		
b.	Explain the four components of metric data giving suitable example.	5		
c.	Explain the dimensional modeling schemas.	10		

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8	a.	Describe the salient attributes of a good Metric.	10
	b.	What is fact table? Giving suitable example describe various types of facts.	10
		UNIT - V	
9	a.	Discuss how KPIs are used by companies?	6
	b.	Explain the four perspective of balanced score cards with a neat diagram.	8
	c.	Discuss the various standardization perspectives used by the enterprises to standardize the	6
repor		reporting process.	U
10	a.	Discuss the potential sources of inputs for metrics that companies use to evolve KPIs?	8
	b.	What is Dashboard? List the types of Dashboard. Discuss the steps used in creating the	10
		dashboard	12

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