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T	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 - 2019 Business Intelligence and its Applications ime: 3 hrs Max. Marks: 100
N	ote: Answer FIVE full questions, selecting ONE full question from each unit. UNIT - I
1 a.	Compare and contrast structured, semi-structured and unstructured digital data. Give an example for each.
b.	Explain MOLAP and ROLAP with neat figures.
2 a.	What are the major components of Business Intelligence? Explain with a diagram.
b.	Examine BI technology and explain how BI systems help business to identify market trends and spot business problems to be addressed.
	UNIT - II
3 a.	Explain ETL process with a neat diagram.
b.	What is Data Integration? Explain the problems faced in Data Integration.
4 a.	Summarize five advantages and limitations of Data warehouse.
b.	Distinguish between Data quality and Data profiling concepts.
	UNIT - III
5 a.	Discuss dimensional modeling life cycle developed by Ralph Kimball. Illustrate it with a neat diagram.
b.	Define the following and discuss briefly ;
υ.	i) Facts ii) Cubes iii) Attribute iv) Hierarchies
6 a.	Distinguish between Star and Snow-flake schema.
0 a. b.	Compare and contrast Relational model and Dimensional model.
υ.	UNIT - IV
7 a.	List the attributes of an effective KPI.
b.	Define metrics. Discuss salient attributes of metrics.
c.	How do you measure business intelligence performance? Explain.
8 a.	Discuss Fact based decision making.
b.	Differentiate KPI and Metrics.
	UNIT - V
9 a.	What is enterprise reporting? Discuss.
b.	Explain Malcom Baldrige - Quality performance framework.
0 a.	Clearly bring out the differences between balanced score board versus enterprise dash board.
b.	Summarize the best practices in the design of enterprise dash board.