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

(An Autonomous Institution affiliated to VTU, Belgaum)

Third Semester, M.Tech. - Computer Science and Engineering (MCSE)
Semester End Examination; Dec - 2016/Jan - 2017
Business Intelligence and Its Applications

Time: 3 hrs Max. Marks: 100 Note: Answer FIVE full questions, selecting ONE full question from each unit. UNIT - I 1 a. Discuss the characteristics of structured data, the sources of structured data and Hassle-Free 10 Retrieval. b. Explain modeling Semi-Structured data the OEM way. 10 2 a. What is dimensional data? Compare 1-D, 2-D and 3-D data with relevant examples. 10 b. Explain the important features of Business Intelligence and types of decisions supported by BI. 10 UNIT - II 3 a. What is data integration? Describe the two approaches to data integration. 10 b. Describe the technologies used for data integration. 10 4 a. What is data quality and data integrity? Explain each with relevant examples. 10 b. Describe when and how to conduct Data profiling? 10 **UNIT - III** 5 a. Is the OLTP database design optimal for a data warehouse? Give reasons. 8 b. Briefly explain the following: 12 i) Granularity of a fact table ii) Star scheme iii) Snowflake schema. 6 a. Explain dimensional modeling life cycle. 12 b. Summarize different types of dimension tables. 8 **UNIT - IV** 7 a. Describe the SMART test for ensuring metric relevance to business. 10 b. Summarize how KPIs are used by companies? 7 c. List measurement system terminology. 3 8 a. Briefly explain the four components of metric data. 8 b. Describe the salient attributes of a good metric. 12 UNIT - V 9 a. Describe common prospectus of reporting that apply at all levels of the enterprise. 8 b. What are the common formats of report delivery? 8 c. List the parameters of four balanced score board prospectus. 4 10 a. Discuss the critical focus areas of enterprise reporting the OLAP world. 10 b. Describe balanced scorecard as a management system and summarize the benefits of balanced

scorecard.

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