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P3121

[5154]-688

B.E. (Computer Engineering) BUSINESS ANALYTIC AND INTELLIGENCE (2012 Pattern) (Semester -II) (Elective-IV (A)) (End Sem.) (410452A)

Time : 2½ *Hours*] [Max. Marks: 70 Instructions to the candidates: Neat diagrams must be drawn wherever necessary. *2*) Figures to the right side indicate full marks. 3) Assume suitable data, if necessary. Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10. **Q1)** a) Explain Business Intelligence Cycle with suitable diagram. [5] b) What are the factors responsible for successful Business Intelligence project. [5] OR Explain Decision Support System with its limitations. **Q2)** a) [5] Explain any one application of Decision Support System in detail. b) [5] Explain the data warehouse architecture with its components. *Q3*) a) [5] Differentiate between Snowflake schema and Fact Constellation (Galaxy) b) Schema with suitable example. [5] OR Describe top down approach for designing Data warehouse. **Q4)** a) [5] b) Explain the Extract-Transform-Load (ETL) process. [5] What is the need of data pre-processing? Explain various data **Q5)** a) transformation techniques. [6] Explain concept hierarchy generation for categorical data. [5] b) Explain HOLAP and DOLAP in detail. [6] c)

Q6)	a)	Explain clustering-based outlier analysis. [6]	
	b)	Suppose that the data for analysis includes the attribute age. The age values for the data tuples are (in increasing order) 13,15,16,16,19,20,20,21,22,22,25,25,25,25,30,33,33,35,35,35,35,36,40,45,46,52,70. [6]	
		i) What is the mean of the data?	
		ii) What is the mode of the data? Comment on the data's modality (i,e., bimodal, trimodal, etc.)	
		iii) Give the five-number summary of the data.	
	c)	Discuss different methods for handling noisy data in the data cleaning process. [5]	
Q7)	a)	Explain the important factors to consider while planning for availability of Business Intelligence system. [8]	
	b)	Write short note on business continuity. [5]	
	c)	Explain the term "Resilience" in the context of business continuity. [4]	
		OR	
Q8)	a)	Explain Security Management in terms of Business Intelligence infrastructure. [6]	
	b)	Explain the usage of Business Intelligence tools to handle Business Intelligence Infrastructure. [6]	
	c)	Explain steps in designing business Intelligence system. [5]	
Q9)	a)	Explain Business Analytics with suitable example. [6]	
	b)	Assume a suitable banking database and use appropriate Business Intelligence technique to classify whether the customer is eligible to get the loan or not. [6]	
	c)	How Business Intelligence is applied in CRM? [4]	
OR			
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Q10) Explain the applications of Business Intelligence in:

c)

Fraud Detection. [5] a) Telecommunications. [5] b) Market Basket Analysis. [6]

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