



B.TECH DEGREE EXAMINATIONS: NOVEMBER 2024

(Regulation 2018)

Sixth Semester

INFORMATION TECHNOLOGY

U18ITE0014: Business Intelligence

COURSE OUTCOMES

- CO1:** Explain the Business Intelligent Environment
CO2: Describe the Business Intelligence Architecture
CO3: Outline the usage of ETL in Business Intelligence
CO4: Explore the Emerging trends in Business Intelligence

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

(Answer not more than 40 words)

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|--|-----|-------------------|
| 1. Define Business Intelligence (BI) and explain its significance in organizational decision-making. | CO1 | [K ₁] |
| 2. What are the key components of a BI framework, and why are they important? | CO1 | [K ₂] |
| 3. Discuss the role of organizational preparedness in the successful implementation of BI initiatives. | CO2 | [K ₂] |
| 4. Identify and explain two types of BI users within an organization. | CO2 | [K ₂] |
| 5. What is the purpose of data profiling in the context of Business Intelligence? | CO3 | [K ₁] |
| 6. Describe the concept of ETL in data integration and its significance. | CO3 | [K ₂] |
| 7. What are the primary dimensions of data quality, and why are they important? | CO4 | [K ₂] |
| 8. Explain the relationship between knowledge discovery, data mining, and predictive analytics in BI. | CO4 | [K ₂] |
| 9. Discuss the impact of emerging BI trends on organizational strategies. | CO3 | [K ₂] |
| 10. What types of data flaws can affect data quality, and how can they be addressed? | CO4 | [K ₂] |

Answer any FIVE Questions:-

PART B (5 x 16 = 80 Marks)

(Answer not more than 400 words)

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|---|---|-----|-------------------|
| 11. a) List and describe about the application of business intelligence to improve organizational operations. | 8 | CO1 | [K ₁] |
|---|---|-----|-------------------|

	b)	Explain about information exploitation to improve the business process.	8	CO1	[K ₂]
12.	a)	Describe in detail about types of business intelligence tools and software.	8	CO2	[K ₂]
	b)	Briefly explain about business intelligence architecture components with neat diagram.	8	CO2	[K ₂]
13.	a)	Differentiate between OLTP and OLAP with example.	4	CO3	[K ₁]
	b)	Describe about transaction-based information flow and how ETL process for business intelligence provide the various staging architecture components.	10	CO3	[K ₃]
14.	a)	List and explain the various types of data quality dimensions.	8	CO3	[K ₂]
	b)	Explain about data quality assessment and rules.	8	CO3	[K ₂]
15.	a)	Explain how the various data cleaning process steps are involved for business intelligence data? Give example.	8	CO4	[K ₂]
	b)	Enumerate briefly about the steps involved in knowledge discovery in predictive analytics.	8	CO4	[K ₃]
16.	a)	What is knowledge discovery in business intelligence? Explain its benefits.	8	CO4	[K ₂]
	b)	Explain the future of business intelligence trends and how leading organizations use business intelligence to propel their success.	8	CO4	[K ₃]
