

BACHELOR OF TECHNOLOGY (CBCS) (2020 COURSE)
B.Tech.Sem - VII INFORMATION TECHNOLOGY : SUMMER : 2024
SUBJECT: BUSINESS INTELLIGENCE

Day : Thursday
Date : 09/05/2024

S-24758-2024

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data if necessary.
- 4) Use of **Non Programmable CALCULATOR** is allowed.

Q.1 How do you handle outlier in dataset during the data preprocessing stage? Why (10)
it is necessary.

OR

Discuss the importance of feature extraction and dimensionality reduction (10)
methods. Explain each methods with suitable example.

Q.2 What are key components of data warehousing architecture, including ETL (10)
processes, data storage and data access.

OR

Differentiate OLTP with OLAP. State the measures used in enterprise (10)
reporting.

Q.3 Imaging you are testing the claim that the average delivery time for a food (10)
delivery service is less than 30 minutes. How would you set up and conduct
the hypothesis test for this scenario?

OR

Differentiate one tailed and two-tailed test. When would you use each type (10)
and what are the implications for significance level?

Q.4 With suitable scenario / example. Explain goal seek and scenario type of what (10)
if analysis in Excel.

OR

Find two regression equation of X on Y and Y on X from following data: (10)

X:	10	12	16	11	15	14	20	22
Y:	15	18	23	14	20	17	25	28

Q.5 What is linear optimization? Give two examples of applications in different (10)
industries.

OR

Explain Auto-Regressive(AR) model with key parameters used in equation of (10)
AR model.

Q.6 Write note on Mobile BI and Embedded BI. (10)

OR

What is importance of big data in Business Intelligence. What are primary (10)
sources of big data.

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