

Total No. of Questions :12]

SEAT No. :

P1798

[4859]-200

[Total No. of Pages :2

B.E (Information Technology)

d : i -BUSINESS INTELLIGENCE (Open Elective)

(2008 Course) (Elective - IV) (Semester - II)

Time : 3 Hours]

[Max. Marks :100

Instructions to the candidates:

- 1) Draw neat diagrams wherever necessary.*
- 2) Assume suitable data, if necessary.*
- 3) Figures to the right indicate full marks.*

SECTION - I

Q1) a) Explain with the help of diagram data warehouse. Explain different components of data warehouse. [8]

b) Explain with the help of examples on-line transaction processing (OLTP). [8]

OR

Q2) a) Compare OLTP and OLAP. [8]

b) Explain the role of data warehouse in business intelligence. [8]

Q3) a) Explain star, snowflake and fact constellation schema. [8]

b) Explain different types of facts. [8]

OR

Q4) a) Explain parent-child and many-many relationship. [8]

b) Explain recurring and accumulating snapshots. [8]

Q5) a) What are metadata, data cubes and marts? [9]

b) Explain architecture of ETL. [9]

OR

P.T.O.

- Q6)** a) What is loading of data in data warehouse? Explain initial and incremental loading. [9]
- b) Explain staging and loading in detail. [9]

SECTION - II

- Q7)** a) Explain ROLAP, MOLAP and HOLAP. [8]
- b) Explain the use of different layers in reporting. [8]

OR

- Q8)** a) What are table-based and materialized views? [8]
- b) Explain ETL scheduling. How is data-level security implemented? [8]
- Q9)** a) Can data mining techniques be applied to text data? What are the different issues in handling text? [8]
- b) Differentiate between in-memory and in-database analytics. [8]

OR

- Q10)** a) What is regression? Explain predictive analysis. [8]
- b) What is unsupervised learning? Explain k-means algorithm. [8]
- Q11)** a) Explain agile BI. [9]
- b) Write a note on Pentaho. [9]

OR

- Q12)** a) Explain change data capture. Explain the significance of log-based techniques important? [9]
- b) Explain various features of Netezza and Teradata. [9]

EEE