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SEAT No. _____

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SARDAR PATEL UNIVERSITY
M.Sc. (Information Technology)
Semester – III External Examinations
PS03EINT22 (Data Mining and Data Warehousing)
2nd November, 2018 (Friday)

Time: 2:00 PM to 5:00 PM

Max. Marks: 70

Q-1 Choose most appropriate option for the following:

[08]

1. Data extraction takes data from source systems and makes it available to _____.
 - A. Operational database
 - B. Data warehouse
 - C. A and B both
 - D. None of these
2. _____ is where a single logical entity is partitioned into multiple sub-entities.
 - A. Partitioning
 - B. Text Mining
 - C. Web Mining
 - D. None of these
3. _____ process is responsible to speed up common queries.
 - A. Archiving
 - B. Clean and transform
 - C. Data extraction
 - D. None of these
4. The _____ is the system component that performs all the operations necessary to support the query management process.
 - A. Load manager
 - B. Warehouse manager
 - C. Query manager
 - D. None of these
5. _____ is also referred as a tiny data warehouse.
 - A. Temporary data store
 - B. Data mart
 - C. RDBMS
 - D. None of these
6. _____ is the information that is used to analyze the elemental transaction.
 - A. Fact data
 - B. Temporary data
 - C. A and B
 - D. None of these
7. _____ are separate operations that occur within the confines of the SQL statement itself.
 - A. Intra-statement operations
 - B. Inter-statement operations
 - C. Extra-statement operations
 - D. None of these

①

8. A _____ is a backup that is taken while the database is completely shut down.
- A. Hot backup
 - B. Online backup
 - C. A and B both
 - D. None of these

Q-2 Write answers in short: (ANY SEVEN)

[14]

- a. What is data mining? Explain it in brief.
- b. Distinguish between data mining tools and query tools.
- c. Explain metadata.
- d. Explain backup and archive process.
- e. What is fact data? Explain it in brief.
- f. Explain starflake schemas.
- g. Explain summary information table.
- h. Discuss importance of recovery process in data warehouse.
- i. What is SLA? Explain it in brief.

Q-3 A Discuss benefits of data mining.

[06]

B List and explain various characteristics of data warehouse.

[06]

OR

B Explain Data Learning.

[06]

Q-4 A Write a short note on warehouse manager.

[06]

B Explain data marting in detail.

[06]

OR

B Write a short note on load manager.

[06]

Q-5 A Explain summary information in detail taking suitable example.

[06]

B Write a short note on vertical partitioning.

[06]

OR

B Write a short note on horizontal partitioning.

[06]

Q-6 A List types of system managers. Explain any two of them.

[06]

B Explain client hardware requirement of data warehouse environment.

[06]

OR

B Explain security requirements for data warehouse.

[06]