## SARDAR PATEL UNIVERSITY

M.Sc. (Information Technology)

Semester – III External Examinations (NC)

PS03EINT02 (Data Mining and Data Warehousing)

21<sup>st</sup> April, 2018 (Saturday)

Time: 10	:00 AM to 01:00 PM	Max. Marks: 70
Q-1 1.	Choose most appropriate option for the following:  takes data from source systems and manually available to the data warehouse.  A. Data manipulation B. Data extraction C. A and B both D. None of these	
2.	is a subject-oriented, integrated, time nonvolatile collection of data in support management decisions.  A. Data Mining B. Text Mining C. Web Mining D. None of these	ort of
3.	In older data is removed from the system in that allows it to be quickly restored if required.  A. Normal backup process B. Partitioning C. Self-learning D. None of these	,
4.	The is the system component that perform operations necessary to support the query management   A. Load manager B. Warehouse manager C. Query manager D. None of these	ns all the process.
5.	Create to speed up the common queries.  A. Associations  B. Classifications  C. Generalizations  D. None of these	
6.	elemental transaction.  A. Fact data B. Dimension data C. A and B D. None of these	
7.	are separate operations that occur vocafines of the SQL statement itself.  A. Inter-statement operations B. Intra-statement operations C. Extra-statement operations D. None of these	vitnin the

8.	is a backup that is taken while the database is completely shut down.  A. Hot backup  B. Online backup  C. Cold backup  D. None of these	ia
Q-2	<ul> <li>Write answers in short: (ANY SEVEN)</li> <li>a. Differentiate between data mining tools and query tools.</li> <li>b. Explain data warehousing in brief.</li> <li>c. Explain importance of backup process within a data warehouse.</li> <li>d. Define: metadata. Give its example.</li> <li>e. What is fact data? Explain it in brief.</li> <li>f. Write an example of starflake schema.</li> <li>g. Distinguish between fact table design and summary table design.</li> <li>h. What is SLA? Explain it in brief.</li> <li>i. "The data warehouse is part of OLTP", justify your answer.</li> </ul>	[14]
Q-3 A B	Discuss various application areas of data mining.  Write in detail about project planning and management life cycle.	[06] [06]
В	OR  Explain benefits of data mining in marketing.	[06]
Q-4 A	Explain clean and transform data process within a data warehouse.	[06]
В	Write a short note on load manager.  OR	
В	Discuss query management process within a data warehouse.	[06]
Q-5 A	Discuss summary information in detail taking suitable example.  Also write benefits of it.	
В	Write a short note on vertical partitioning.  OR	[06]
В	Write a detail note on Advanced Encryption Standard.	[06]
Q-6 A	List types of system managers. Explain ANY TWO of them in detail.	[06]
В	Explain server hardware requirement of data warehouse environment.	[06]
В	OR Write a short note on security requirements for data warehouse.	[06]
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