(3 Hours) Total Marks : 100

Note : : 1) All questions are compulsory.
2) Make suitable assumptions wherever necessary and state the assumptions made.
3) Numbers to the right indicate marks.

Q. 1 Attempt ***any two*** of the following 10
a Write a short note on database management system.
b How transaction processing can be parallelized?
c Write a short note on ETL mapping.
d Write a short note on building the metadata infrastructure.

Q. 2 Attempt ***any three*** of the following 15
a Write a short note on star schema.
b Write a short note on interactive sector.
c Explain data warehouse with respect to referential integrity.
d Write a short note on meta data.
e Differentiate between structured and unstructured data.
f Write a short note on lifecycle of Data Warehouse.

Q. 3 Attempt ***any three*** of the following 15
a Differentiate between active and passive repositories.
b Briefly explain internal and external taxonomy.
c Explain spiral model methodology in brief.
d What is statistical processing with respect to data warehousing?
e Define data marts and exploration facility.
f What is project based data?

Q. 4 Attempt ***any three*** of the following 15
a Explain in brief ETL data quality monitor.
b What is a granular data?
c Explain the importance of encryption process.
d How data access can be protected in DW?
e Explain in brief how to monitor DW environment.
f Write a short note on attack sensing.

Q. 5 Attempt ***any three*** of the following 15
a Briefly explain discrete data.
b Explain audit trail with respect to ETL.
c Write a short note on time variant data.
d Define role of ETL in brief.
e Explain exception flow of data.
f Explain ETL in batch mode.

Q. 6 Attempt ***any three*** of the following 15

a Write a short note on homegrown versus third party granularity manager.
b Define analytical response time.
c How transactions can be separated into classes?
d Write a short note on creating enterprise metadata.
e What are service level agreements? Explain in brief.
f Write a short note on data partitioning.

Q. 7 Attempt ***any three*** of the following 15

a Explain in brief physical design process.
b Explain process of DW implementation.
c Explain data warehouse deployment.
d Define DW maintenance.
e Write a short note on data warehouse.
f Write a short note on growth of DW.

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