BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2016 COURSE)
S.Y.B.Sc.(Computer Science) Sem-III : WINTER- 2022
SUBJECT : DATA WAREHOUSING & DATA MINING-I

Day : Thursday | Time : 10:00 AM-01:00 PM

Date : 22-12-2022 | **W-14890-2022** | Max. Marks : 60

N.B.:

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.

Q.1 Answer **ANY TWO** of the following: **[12]**

a) What is ETL in data warehouse? Explain the ETL process in detail.

b) What is metadata? Explain the different types of metadata stored in Data Warehouse.

c) Explain fact constellation schema with suitable example.

Q.2 Answer **ANY TWO** of the following: **[12]**

a) Explain the architecture of Date warehouse in detail with a neat diagram.

b) Explain star and snowflake schema with suitable example.

c) What is DBMS? Explain DBMS operations.

Q.3 Answer **ANY TWO** of the following: **[12]**

a) Compare OLAP and OLTP system.

b) Explain data mining functionalities in detail.

c) What do you mean by aggregate functions in SQL? Explain any four aggregate functions with suitable example.

Q.4 Answer **ANY THREE** of the following: **[12]**

a) What is Data marts? Explain different types of data marts.

b) Why do many enterprises need a data warehouse?

c) Write a note on advantages of Hybrid OLAP.

d) Write a note on Decision Support System (DSS).

Q.5 Answer **ANY FOUR** of the following: **[12]**

a) Differentiate between classification and clustering data mining techniques.

b) What are the steps of data pre-processing?

c) Give a syntax and example of create statement in SQL.

d) Write a short note on Database Users.

e) State the features of network data model.

f) Define the following terms: **i)** Data staging area **ii)** Data cube

* * * *