BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2018 COURSE)
S.Y.B.Sc.(Computer Science) Sem-III : WINTER :- 2021
SUBJECT: DATA WAREHOUSING & DATA MINING-I

Day : Friday
Date 4/2/2022

W-20101-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 60

N. B.

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

Q.1 Attempt any **TWO** of the following **(12)**

a) What is data mining? Explain need of data mining.

b) Draw and explain Database query processing.

c) Explain key features of data warehouse.

Q.2 Attempt any **TWO** of the following **(12)**

a) Explain evolution of decision support systems.

b) What is data model? Explain object oriented data model.

c) Explain star schema with suitable example.

Q.3 Attempt any **TWO** of the following **(12)**

a) What is data cube? Explain 3-D data cube Analysis.

b) Explain KDD process with the help of suitable diagram.

c) Discuss characteristics of ROLAP system.

Q.4 Attempt any **THREE** of the following **(12)**

a) How aggregation plays fundamental role in multidimensional database?

b) Differentiate between OLAP and OLTP

c) Discuss the need of data preprocessing.

d) Explain snowflake schema.

Q.5 Attempt any **FOUR** of the following **(12)**

a) What is network data model? Given one example for the same.

b) What is data? What is database? Give one example for each.

c) Develop a database for ABC private Ltd.

d) What are different types of DBMS users?

e) What is data mart? How to design data mart?

f) What are the benefits of a separate data warehouse?

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