

BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2018 COURSE)
S.Y.B.Sc.(Computer Science) Sem-III :SUMMER- 2022
SUBJECT : DATA WAREHOUSING & DATA MINING-I

Day : Tuesday
Date : 19-07-2022

S-20101-2022

Time : 03:00 PM-06:00 PM
Max. Marks : 60

N. B.

- 1) All Questions are **COMPULSORY**
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw diagrams **WHEREVER** necessary.
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- Q.1** Answer any **TWO** of the following: **(12)**
- a) Explain the process of knowledge discovery with suitable diagram.
 - b) Explain the need of database management system.
 - c) What is data model? Explain entity – relationship model.
- Q.2** Answer any **TWO** of the following: **(12)**
- a) Create database for student (Srollno, Sname, Saddress, Smarks). Insert five records and display complete database.
 - b) Explain the applications of database management system.
 - c) Differentiate between network model and hierarchical model.
- Q.3** Answer any **TWO** of the following: **(12)**
- a) Draw and explain 3-tier architecture of database management system.
 - b) What is data independence? Explain the types of data independence.
 - c) Explain data warehouse characteristics to support decision –making process.
- Q.4** Answer any **THREE** of the following: **(12)**
- a) What is data mining? What is the need of data mining?
 - b) Explain database schemas.
 - c) What are the features of ROLAP?
 - d) Explain roll up operation.
- Q.5** Answer any **FOUR** of the following: **(12)**
- a) What is database key? State different types of database keys.
 - b) Define the following database operations:
 - i) update
 - ii) delete
 - c) State the features of data marts.
 - d) Write a short note on drill down operation.
 - e) State the benefits of data warehouse.
 - f) Write a short note on data warehouse back end tools.

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