BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-VI : : SUMMER - 2022
SUBJECT : DATA WAREHOUSING & DATA MINING

Day : Monday   Time : 10:00 AM-01:00 PM
Date : 23-05-2022   **S-18798-2022**   Max. Marks : 60

N.B.:

1)	**Q.4 is COMPULSORY.**	
2)	Answer **ANY TWO** questions from Q.1, 2, 3 in Section – I.	
3)	Answer **ANY TWO** questions from Q.5, 6, 7 in Section – II.	
4)	Figures to the right indicate **FULL** marks.	
5)	Answers to both the sections should be written in **SAME** answer books.	
6)	Draw a labeled diagram **WHEREVER** necessary.	

SECTION – I

Q.1   What is metadata in data warehousing environment? Classify metadata and **(12)**
explain the same.

Q.2   Answer the following:
   a) OLAP Operations   **(06)**
   b) OLAP Servers   **(06)**

Q.3   What is data mining? How data mining systems are classified? Discuss each **(12)**
classification with an example.

Q.4   Write short notes on **(Any 3)**   **(12)**
   a) ETL Process
   b) Data characterization vs Data Discrimination
   c) Data Cleaning
   d) Outlier Analysis
   e) Data Mart

SECTION – II

Q.5   What is Market Basket Analysis? Explain the Apriori algorithm for finding **(12)**
frequent item sets with an example.

Q.6   What is classification? Explain with an example how to solve a classification **(12)**
problem using decision tree.

Q.7   What are the different clustering methods? Explain each in detail.   **(12)**

*   *   *   *