Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 31120 Roll No.

BCA Examination 2021-22

(Even Semester)

DATA WAREHOUSING & DATA MINING

Time : Three Hours] *[Maximum Marks : 60*

Note :– Attempt all questions.

SECTION–A

1. Attempt all parts of the following : 8×1=8

    (a) What is a data warehouse?

    (b) What is data mining?

    (c) What is data transformation?

    (d) Write the full form of OLTP and OLAP.

    (e) Why extracting data form web is important?

    (f) What is ETL?

    (g) What are the different stages of data ware housing?

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(h) Are database and data warehousing the same thing?

SECTION – B

2. Attempt any two parts of the following :   2×6=12

(a) State and explain various data mining task.

(b) What is association analysis? Explain association rule.

(c) Construct a FP tree for the following data set :

TID	ITEMS
1	{a, b}
2	{b, c, d}
3	{a, c, d, e}
4	{a, d, e}
5	{a, b, c}
6	{a, b, c, d}
7	{a}
8	{a, b, c}
9	{a, b, d}
10	{b, c, e}

(d) Explain Apriori algorithm.

SECTION – C

Note :– Attempt all questions from this section.

$$10 \times 4 = 40$$

3. Attempt any two parts of the following :

   (a) What are some benefits of cloud-based data warehouse?

   (b) Draw and explain the data ware house architecture.

   (c) State and difference between star and snowflake schema.

4. Attempt any two parts of the following :

   (a) What is holdout method?

   (b) What is Rule-based classifier? Explain how rule-based classifier work?

   (c) What is data mining system classification?

5. Attempt any two parts of the following :

   (a) What is multidimentional data molding?

   (b) What is the difference between OLTP and OLAP?

(c)   Explain nearest neighbour classifier.

6.   Attempt any two parts of the following :

(a)   Describe the advance data information system.

(b)   Write the difference between rational database and transactional database.

(c)   What is data mining task primitive?

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