

**Z - 2469****B.Sc. (Honours) (IV Sem.)****EXAMINATION, June 2022****CHEMISTRY****Paper-404-GE-4****(Introduction to Database System)***Time : Three Hours**Maximum Marks : 60**Minimum Pass Marks : 21*

**Note-** Attempt *all* questions. Question No. 1 is compulsory. Question 2 to 6 carry equal marks.

1. Attempt any *five* questions in brief : 10

~~(a)~~ What do you mean by schema ?

(b) Define cardinality.

~~(c)~~ What do you understand from derived attribute ?

(d) Define foreign key.

~~(e)~~ What do you understand from functional dependency ?

(f) Define types of relationship.

~~(g)~~ What do you understand from SQL ?

~~(h)~~ Define entity set and entity type.

(i) Write the names of popular DBMS.

~~(j)~~ What do you understand from redundancy in database ?

### Unit - I

~~2.~~ Explain the role of DBA in detail. 10

Or

Describe architecture of DBMS along with the advantages of DBMS approach over the file processing approach. 10

### Unit - II

~~3.~~ Explain E-R diagram using an example.

10

( 3 )

Z - 2469

Or

Discuss the role of various types of keys in DBMS using suitable example. 10

**Unit - III**

\* Explain relational model using suitable example. Write its characteristic features. 10

Or

✓ Explain the need of normalization. Describe 1NF using an example. 10

**Unit - IV**

5. Explain how relationships can be created between tables using suitable example. 10

Or

✓ Write sql queries for the following :

- (a) Create a table and insert records into the table. 5
- ✓ (b) Display all the record of the table created without duplication. 5

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( 4 )

Z - 2469

**Unit - V**

6. Write an explanatory note on reports creation in DBMS. 10

Or

✓ Explain the steps of creating and validating a form in DBMS. 10

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