FOURTH SEMESTER B.SC. (NEP) DEGREE EXAMINATION, AUG./SEPT. 2023
COMPUTER SCIENCE (DSC – 1)
Database Management Systems

Time : 2 Hours]

[Max. Marks : 60

Instruction : *Answer **all** questions as per the **internal** choices.*

PART – A

I. Answer **any 5** questions. **Each** question carries 2 marks : (5×2=10)

1) Define database interface. State its types.

2) Mention DML and DDL commands.

3) Define :

  a) Strong entity.

  b) Weak entity.

4) What is cardinality ratio ? Mention its types.

5) What is an aggregate function ? State its types.

6) What is functional dependency ?

PART – B

II. Answer **any 4** questions. **Each** question carries **5** marks : (4×5=20)

7) What is schema ? Explain three schema architecture.

8) What is data independence ? Explain its types.

9) Define data model. Explain its types.

10) What is key ? Explain different types of keys.

11) Explain database design guidelines.

[P.T.O.

PART – C

(3×10=30)

III. Answer **any 3** questions. **Each** question carries **10** marks :

(5+5)

12) Explain the following :

    a) Database interfaces.

    b) People associated with database system.

13) Draw an ER diagram for company database. Explain ER diagram notations.

14) Explain join operations with examples.

15) Explain the following :

    a) Transaction life cycle.

    b) Desirable properties of transactions.

(6+4)

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