2(Sem-8/FYUGP)BNC(A)/DSCI

2025

INFORMATION TECHNOLOGY

(Discipline Specific Core)

Paper Name: Introduction to Database Management System

Paper Code: **BIT-DSC-144**

Full Marks: 45

Time: Two Hours

(*The figures in the margin indicate full marks for the questions*)
Answer in English

1. **Fill in the blanks :**   1x4=4
   a) A _____is an organized collection of data.
   b) The ....normal form eliminates partial dependency.
   c) DROP is a _____ statement in SQL.
   d) An _____ refer to the real world object.

2. **Answer any three questions :**   2x3=6
   a) Differentiate in between candidate key and primary key.
   b) What do you mean by Strong and Weak Entity ?
   c) What is a nested query ?
   d) What is data redundancy ?

3. **Answer any three of the following questions :**   5x3=15
   a) Explain roles and responsibility of DBA.
   b) Explain DDL and DML.
   c) Define data independence.
   d) Explain various types of Indexes in DBMS.

e) What are the disadvantages of file processing system ?

4. **Answer any two of the following questions :**   **10x2=20**
   a) What is a Normalization ? Explain the 1NF, 2NF & 3NF with examples.
   b) What is data independence? Explain different types of data independency.
   c) Explain the different Relational Model constraints.

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