

2021
B.A./B.Sc. (General) Fifth Semester
Introduction to Computer Science
(Additional Optional Subject)
Paper – IIIA: Database Management System

Time allowed: 3 Hours

Max. Marks: 25

NOTE: Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I - IV.

x-x-x

UNIT - I

- I. a) Explain the general Architecture of a Database Management Software. (2x2½)
b) Explain the Basic DBMS Terminology.
- II. a) Explain the main components of DBMS.
b) Explain the main advantages and disadvantages of DBMS. (2x2½)

UNIT - II

- III. Explain the following and give examples:-
a) Entity Relationship Model
b) Relational Model (2x2½)
- IV. Design a generic database for Inventory Control application. (5)

UNIT - III

- V. How are the anomalies of the First, Second and Third Normal Forms rectified? Explain with the help of examples. (5)
- VI. a) Explain the main properties of a field used in MS-Access Table and their relevance.
b) How are relationships created, modified and deleted in MS-Access? (2x2½)

UNIT - IV

- VII. Explain the following:-
a) Crosstab Queries
b) Action Queries (2x2½)

P.T.O.

(2)

- VIII. a) How is data imported and exported in MS-Access? Write steps citing any suitable example.
- b) How is data grouped and sorted in MS-Access reports? (2x2½)

UNIT - V

IX. Write short answers for the following:-

- a) Write two disadvantages of File-oriented approach.
- b) What is Data Independence?
- c) What is Primary Key?
- d) Differentiate between Generalization and Aggregation.
- e) How can we create a query in MS-Access? (5x1)

x-x-x

C4KNOWLEDGESEEKERS