

H-3830**B.C.A. (Part-II) Examination, 2024****Paper - II****DATABASE MANAGEMENT SYSTEM****(BCA-202)****Time Allowed : Three Hours****Maximum Marks : 80****Minimum Pass Marks : 27**

Note : Attempt any two parts from each unit. All questions carry equal marks.

Unit - I

Q. 1. (a) Explain various Data Models in detail.

(b) Explain data processing versus data management and file oriented approach versus database oriented approach.

H-3830**P.T.O.**

(c) Write short notes on following ✓

(i) DBMS Architecture

(ii) Database Administration Roles

Unit - II

Q. 2. (a) Explain Entity-Relationship model.

(b) Explain generalization, specialization and aggregation.

(c) Write short notes on following :

(i) UML

(ii) Concept of keys


Unit - III

Q. 3. (a) Explain select and project in detail.

(b) Explain domain relational calculus.

H-3830

(3)

 (c) Write short notes on following :

- (i) Types of joins
- (ii) Tuple relational calculus

Unit - IV

- Q. 4.** (a) Explain functional dependencies and join dependencies. <https://www.prsunotes.com>
- (b) Explain 4NF and 5NF and Denormalization.
- (c) Write short notes on following :
- (i) Boyce Codd Normal Form
 - (ii) Multivalued Dependencies

Unit - V

- Q. 5.** (a) Explain Referential Integrity and Security of Authorization in SQL.

H-3830

P.T.O.

(4)

- (b) Explain inner and outer joins and query processing.
- (c) Write short notes on following :
- (i) Group By of Having Clause
 - (ii) View and Order By
-

H-3830

1,200