Annual Examination, 2023

B.C.A. Part II

B.C.A.-202

Paper II

(Data Management System)

Time: Three Hours]

[MAXIMUM MARKS: 80

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

Unit-I

- 1. (a) Compare file oriented approach verses database oriented approach.
 - (b) Describe Data model in detail.
 - (c) Discuss different kinds of DBMS users.

Unit-II

- 2. (a) Describe ER model with suitable example.
 - (b) Explain extended feature of E-R model.
 - (c) Write a brief notes on keys.

Unit-III

- 3. (a) Explain different types of joins with example.
 - (b) Discuss Domain relational calculus with example.

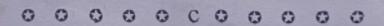
(c) Describe stand alone and embeded query languages with example.

Unit-IV

- 4. (a) Define normalization? Discuss 1NF, 2NF and 3NF with examples.
 - (b) Discuss function depencies with its types in detail.
 - (c) Write a brief note on de-normalization.

Unit-V

- 5. (a) What is view? How you create and use view?
 - (б) Explain query processing in detail.
 - (c) Write the short notes on following:
 - (i) Integrity,
 - (ii) Security,
 - (iii) Recovery.



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