

Database Management Systems (BCA-302)

Duration: 2 hours

Max. Marks:50

Instructions:

Figures to the right indicate maximum marks.

Start each question on a fresh page

All questions are compulsory

Q.1 A) Briefly explain the following in one or two sentences. (5*2=10)

- a) DML
- b) Aggregation
- c) Distributed database system
- d) Merge-purge operation
- e) 5NF

Q.2 Answer the following

- a) List down any two dis-advantages of using dbms. (2)
- b) Briefly explain the database architecture. (3)
- c) Explain the components of a data warehouse. (5)

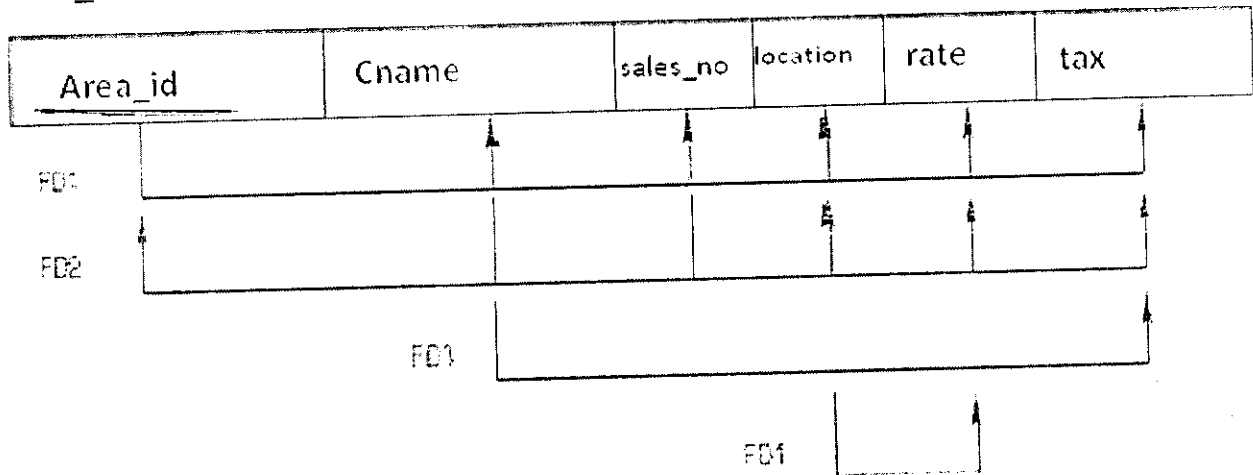
Q.3 Answer the following

- a) Define total and partial participation. (2)
- b) Explain the concept of weak entity with an example. (3)
- c) Model an E-R diagram for a online shopping scenario. Make assumptions wherever necessary . (5)

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Q.4 Answer the following

- a) What do you understand by domain key normal form? (2)
- b) Define bad decomposition. List down any two advantages of normalization. (3)
- c) Define 2NF and decompose the following relation upto 3NF. (5)
- Area_id is the primary key and Cname,sales_no are the candidate keys .



Q.5 Answer the following

- a) Briefly explain consistency and isolation properties of a transaction. (2)
- b) Briefly explain the different types of schedules. (3)
- c) Discuss the features and applications of multimedia databases. (5)

*****Best of luck*****