Roll No.

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May 2024

BBA (GEN) Re-Appear- IV SEMESTER DataBase Management System (BBA-GEN-404)

Time: 3 Hours]

[Max. Marks: 75

Instructions:

- each) of Part-A in short.
- 2. Answer any four questions from Part-B in detail.
- Different sub-parts of a question are to be attempted adjacent to each other.

1. It is compulsory to answer all the questions (1.5 marks

PART-A

- 1. (a) Define Schema in brief.
- (b) Explain different types of attributes of an entity, (1.5)
 - (c) Define different type of database users?
 - (d) Differentiate Data and Meta-Data.
 - Differentiate Structured and Un-structured data.

 Define Atomicity in brief.
 - Define the utility of Digital Libraries.
 - h) Explain the functionalities of Firewalls.

(1.5)

(1.5)

(1.5)

(1.5)

(1.5)

(1.5)

(1.5)

- (i) Give example of any 2 front-end and back-end tools. (1.5)
- j) What is the need to create instance of data? (1.5)

PART-B

- 2. (a) Explain 2-tier and 3-tier architectures of DBMS with their advantages. (10)
 - (b) Explain any 2 Database recovery techniques in brief. (5)
- (a) Explain the roles of Database administrator in detail.
 (5)
 - (b) Explain different data models in detail. (10)
- 4. Draw an ER diagram for the Banking System. Assume the entities, their attributes and relationships by your own and hence reduce the ER diagram into tables. (15)
- (a) Explain weak entity with appropriate example. (5)
 (b) What is the need of database security? Explain different threats and security issues. (10)
- 6. Explain different emerging data base technologies related to data warehousing and data mining in detail. (15)

- 7. Explain the following databases in detail:
 - (a) Multimedia Database.
 - (b) Mobile Database.
 - c) Spatial Database.

(15)