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Total Pages : 3

213404

May, 2019

BBA (Gen) - IV SEMESTER

DATABASE MANAGEMENT SYSTEM (BBA/GEN/404)

Time : 3 Hours] [Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*
4. *Explain your answers with diagrams wherever necessary.*

PART–A

1. (a) What is meant by DBMS? (1.5)

(b) Differentiate between Data and Information. (1.5)

(c) What is the difference between physical and logical data independence? (1.5)

(d) What is data dictionary? (1.5)

(e) Explain the concept of DDL and DML. (1.5)

(f) Differentiate between Database and Data Warehouse? (1.5)

(g) What is Data Mining? (1.5)

(h) Discuss various types of users involved in Database system. (1.5)

(i) What is a Digital Library? (1.5)

(j) What are various security issues in a Database System? (1.5)

PART–B

2. (a) What are the advantages of using Database approach over traditional File processing approach? (5)

(b) Explain in detail the three schema architecture of DBMS. Also explain the concept of logical and physical data independence in context of this architecture. (10)

3. (a) Explain the following terms with examples:

DDL, DML, Super Key, Primary Key, Foreign key. (10)

(b) Who is DBA? What are the responsibilities of DBA? (5)

4. (a) Explain in detail various types of Database systems. (5)

(b) What is a Data Model? Discuss any two Data Models with suitable examples. (10)

5. (a) What are various Database failures that result in loss of information? (5)

(b) Explain in detail various database recovery techniques to recover from failures? (10)

6. (a) What is a Distributed Database? How data is stored and queried in these databases? (5)

(b) Discuss various data mining techniques for discovering hidden patterns from databases. (10)

7. Explain following databases in detail:

(i) Mobile database.

(ii) Multimedia database.

(iii) Spatial database. (15)