I year B. Com. (computis)

Subject: RDBMS

UNIT WISE QUESTION BANK :

UNIT-I

(A) short Answer Questions:

(1)	Define @ Database 6 DBMS
(2)	"kihat is Database Systems?
(3)	Write about Evolution of DBMS.
(4)	Explain (a) write the drawbacks of File systems?
(5)	Explain (w) write the Advantages of DBMS?
(6)	kinat is Data Redundancy & Inconsistency?
(7)	What are the different Data Models in DBMS? Explain Relational model?
(8)	What is Data Dictionary?
(9)	klhat & Metwork model?
(60)	Explain the various components of Database Systems?
(11)	klbat is Data sharing?
(B) L	ong Answer Questions:
(1)	Write the Differences between DBMS and Filesystems!
(2)	Explain the functions of DBA?
(3)	Explain the Various types of RELATIONAS MODELS?
(4)	kinat is DBMS! Explain Various Components of DAM DBMK!
(S)	Explain the rFsks and costs of Database?
(6)	Explain the different stages of DDLC?

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UNIT-I
(A) Short Answer Questions:
(1) Define the following terms and Give Examples?
(a) Entily (c) Object- (e) strong Entily
(b) Altribule (d) Relation (f) Weak Entily
(g) Simple Attribute (b) Comprisil-Attribute (1) MultiValued A
(2) kihat & Generalization?
(3) What is Specialization?
(4) RIHW-& Aggregation?
(5) Explain E-R Diagram wills an example!
(6) Define functional Dependency!
(7) Defene transitive Dependency!
(8) Define Minary Key! Give Example!
(g) Define roleignicity (given chample)
(B) Long Answer Questions:
(1) Define Caridinality? Explain the basic relationship
of matping with Example?
(oL) (oL)
Relationships Explain with Example?
(2) Explain Degree d a Relation with Example?
(a) Explain una Binary Tenary Relatione?
(3) Fundain Different Intessili Constraints?
A) Kihal-& Normalization ? Explain the Different-
Normal Forms? (2) Explain INF, 2NF, 3NF, BUNF WILF
(S) Explain Didferent types of Jone?
(6) Explain various operators of Relational Algebra?

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1	UNIT-II
-Sha	+ Answer Questions: >
I.	What is Dataschema?
2-	KIMAT is Nesked Query?
3.	Write about Groupby Clause and Having clauk?
4.	klhat is deference between a view & a Table?
5.	Explain client server Architecture?
6.	Explain update and Insert Commands?
7.	Explain any five Aggregale functione of SOL Wilt Example?
Te	sey Questrons:)
-	Cholon about Database Schema & Table with
١.	Examples?
2	Explain client Server Database Systems with Diagrammin
3.	Explain in detail server data manipulation ?
	UNIFI
Sha	- Answer Questions-2
(.	alpal- is storage structure?
2	what is database Integrity?
3.	What are the functions of DBA?
4.	Differentiale between Authorzation & Authentication?
5.	Explain the Goals of DIBA?
7-	What is date base security ? Fallois about security ?
LONG	ANSWER DUBETIONS
4	Explain about DBA?
2	Define file osganization? Explain type of tile requirem?
3.	Soplain about - Codd's Rules of Database?
4.	Explain about Database security & Database recovery?
۰ د	Physical Date stenctures?

UNIT-I

Define DDBMS? (1)write characteristics of DDBMS7 (2)(3, White Advantages & DDBms? What & Data Fragmentalian? (4)What 5 Distributed Query processing? (5) (Khat & Database Security ? (6) Explain Two phase Commil- protocol? (7) (8) Explain Drephilauted Two phase Locking ? Essay Question ?-> (1) Khite about DBMS feature requirements. White about DBMS Functions & capabilities? (2) Explain atom advantages & Disadvantages of DDBMS? (3) Explain DBMS Implementation Ismes? (4)(5) Explain about Distributed Query processing? (6) Write shat Notes on (1) Data Replication (1) Data partitioning (11) Data Fragmenterlin.

unit wise important questions b.com II Year RDBMS Unit I

Discuss in detail about the database management system architecture with neat diagram?

2. Explain the different types of data model in detail with suitable examples

Describe the components of E- R diagram with example? [Ex: Library management system, Hospital management system any example they may ask]

4. Explain the different types of keys used in dbms discuss about database users and administrator

Unit II

1. Discuss the fundamental operations in relational algebra operations with suitable example.

2. Explain the following with suitable example

(i) Integrity Constraints

(ii) Distributed and Client server databases

3. What are aggregate functions? Discuss with examples, the various aggregate functions used in SQL?

4. With relevant examples discuss the following in SQL?
(i) DDL
(ii) DML
(iii) DCL
(iv) Views

Unit III

1. What is normalization? Explain 1NF, 2NF, 3NF and BCNF with suitable example.

2. Discuss on two-phase locking protocol and time-based protocol in detail?

3. Explain non-loss decomposition and functional dependencies with suitable examples

4. Discuss how schema refinement an improve schemas obtained through ER design

Unit IV

1. Explain different forms of serializability?

2. State and explain in detail about three concurrency problems

3. Why is recovery needed? Discuss any two recovery techniques?

4. Explain in detail about different locking protocols in detail.

Unit V

1. Discuss in detail about the different RAID Levels?

2. Illustrate the purpose of indexing .How indexing can be done by B+ tree. Explain.

Describe the different types of file organization? Explain using a sketch of each of them With their advantages and disadvantages

Explain the various complex selection predicates and sorting operations with an example