

Q.no

(a)

(b)

(c)

(d)

(e)

(f)

(g)

(h)

(i)

(j)

				Sub	ject	Cod	le: ŀ	COE	067
Roll No:									

BTECH (SEM VI) THEORY EXAMINATION 2021-22 BASICS OF DATA BASE MANAGEMENT SYSTEM

Time: 3 Hours Total Marks: 100

Note: Attempt all Sections. If you require any missing data, then choose suitably.

What do you understand by the Database Security?

Discuss about the need of Backup and Recovery.

SECTION A

1. Attempt <i>all</i> questions in brief.	1	A 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 1 . 6
	Ι.	Affemnt <i>all</i>	auestions in brief.

pt att questions in brief.	U — ZU	
Questions	Marks	CO
DefineDatabase Management System(DBMS).	2	1
Briefly discuss about the differences between Database System and	2	1
File System.		
Define Tuples.	2	2
Discuss about the Logical data Independence.	2	2
Briefly discuss about the need of Structured Query Language (SQL).	2	3
What do you mean by views and indexes in Structured Query	2	3
Language (SQL)?		
TT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

2*10 = 20

Printed Page: 1 of 2

SECTION B

2. Attempt any three or	f the	following:
-------------------------	-------	------------

What is the use of Serializabilty?

Define properties of Transaction.

	_		
-10	*3	=	30

2

2

4

5

5

Q.noQuestionsMarksCO(a)Explain in detail about the application of Centralized and Client-Server Architectures.105(b)Write short notes on any two of the following: (i) Relational Database Schema.(ii) Integrity constraints.(iii) Entity integrity. (c)What do you mean by Transaction? Explain transaction property with detail using the suitable example.3(d)What is Log? How is it maintained? Discuss the features of deferred database modification and immediate database modification in brief.4(e)Describe theprinciples of Views of data. Discuss about the levels of abstraction.101		se any once of the fone wing.		
Architectures. (b) Write short notes on any two of the following: (i) Relational Database Schema. (ii) Integrity constraints. (iii) Entity integrity. (c) What do you mean by Transaction? Explain transaction property with detail using the suitable example. (d) What is Log? How is it maintained? Discuss the features of deferred database modification and immediate database modification in brief. (e) Describe the principles of Views of data. Discuss about the levels of 10 1	Q.no	Questions	Marks	CO
(b) Write short notes on any two of the following: (i) Relational Database Schema. (ii) Integrity constraints. (iii) Entity integrity. (c) What do you mean by Transaction? Explain transaction property with detail using the suitable example. (d) What is Log? How is it maintained? Discuss the features of deferred database modification and immediate database modification in brief. (e) Describe the principles of Views of data. Discuss about the levels of 10 1	(a)	Explain in detail about the application of Centralized and Client-Server	10	5
(i) Relational Database Schema. (ii) Integrity constraints. (iii) Entity integrity. (c) What do you mean by Transaction? Explain transaction property with detail using the suitable example. (d) What is Log? How is it maintained? Discuss the features of deferred database modification and immediate database modification in brief. (e) Describe the principles of Views of data. Discuss about the levels of 10 1		Architectures.		
(ii) Integrity constraints. (iii) Entity integrity. (c) What do you mean by Transaction? Explain transaction property with 10 detail using the suitable example. (d) What is Log? How is it maintained? Discuss the features of deferred database modification and immediate database modification in brief. (e) Describe the principles of Views of data. Discuss about the levels of 10 1	(b)	Write short notes on any two of the following:	10	2
(iii) Entity integrity. (c) What do you mean by Transaction? Explain transaction property with 10 3 detail using the suitable example. (d) What is Log? How is it maintained? Discuss the features of deferred 10 4 database modification and immediate database modification in brief. (e) Describe the principles of Views of data. Discuss about the levels of 10 1		(i) Relational Database Schema.		
(c) What do you mean by Transaction? Explain transaction property with 10 detail using the suitable example. (d) What is Log? How is it maintained? Discuss the features of deferred database modification and immediate database modification in brief. (e) Describe the principles of Views of data. Discuss about the levels of 10 1		(ii) Integrity constraints.		
detail using the suitable example. (d) What is Log? How is it maintained? Discuss the features of deferred database modification and immediate database modification in brief. (e) Describe the principles of Views of data. Discuss about the levels of 10 1		(iii) Entity integrity.		
(d) What is Log? How is it maintained? Discuss the features of deferred database modification and immediate database modification in brief. (e) Describe the principles of Views of data. Discuss about the levels of 10 1	(c)	What do you mean by Transaction? Explain transaction property with	10	3
database modification and immediate database modification in brief. (e) Describe the principles of Views of data. Discuss about the levels of 10 1		detail using the suitable example.		
(e) Describe the principles of Views of data. Discuss about the levels of 10 1	(d)	What is Log? How is it maintained? Discuss the features of deferred	10	4
		database modification and immediate database modification in brief.		
abstraction.	(e)	Describe the principles of Views of data. Discuss about the levels of	10	1
		abstraction.		

3. Attempt any *one* part of the following:

10*1 = 10)
-----------	---

	J		
Q.no	Questions	Marks	CO
(a)	What is the need of Database Normalization? Discuss about the First	10	2
	and Second Normal form with the help of an example.		
(b)	Explain about the Two phase Locking (2PL)? Describe with the help	10	5
	of example.		



					Pri	inte	l Pa	ge: 2	of 2	
				Subject Code: KOE067						
Roll No:										

BTECH (SEM VI) THEORY EXAMINATION 2021-22 BASICS OF DATA BASE MANAGEMENT SYSTEM

4. Attempt any *one* part of the following: 10*1=10

Q.no	Questions	Marks	CO
(a)	Discuss about the concept of Data Modeling using the Entity	10	1
	Relationship (ER) Model.		
(b)	Discuss about theuse of insert, update and delete operations in	10	3
	Structured Query Language (SQL).		

5. Attempt any *one* part of the following: 10*1 = 10

Q.no	Questions	Marks	CO
(a)	Discuss in detail about the basic principle of Referential integrity and	10	4
	domain constraints in Relational Database.		
(b)	Explain in detail about any two of the following.	10	5
	(i) Data Mining.	ļ	
	(ii) Data Warehousing.	ļ	
	(ii) Data Visualization.		

6. Attempt any *one* part of the following: 10*1 = 10

Attenti	pt any one part of the following.	1 10	
Q.no	Questions	Marks	CO
(a)	Describe the concept of Functional dependencies. What do you	10	2
	understand by Keys constraints and Domain constraints?	7	
(b)	Write down about any two of the following.	10	3
	(i) Stored procedures		
	(ii) Stored function		
	(iii) Database triggers		

7. Attempt any *one* part of the following: 10*1 = 10

Q.no	Questions	Marks	CO
(a)	Briefly discuss any two of thefollowing through an example.	10	1
	(i) Super key		
	(ii) Candidate key		
	(iii) Primary key		
(b)	Write down about the concept of Recovery with Concurrent	10	4
	Transaction.		