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2023

Time: 3 Hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer five questions, in which

Q. No.-1 is Compulsory.

- Choose the correct answer of the following:
 - (a) The most important schema for application programmers is:
 - (i) Physical level
 - (ii) Logical level
 - (iii) Conceptual level
 - (iv) External level
 - (b) Rollback in a database is _____ statement.
 - (i) DDL
 - (ii) DML
 - (iii) DCL
 - (iv) TCL

(c)	SQI	_ stands for:
	(i)	Structured Query Language
	(ii)	Simple Query Language
	(iii)	Sequential Query Language
	(iv)	None of these
(d)	Data	abase schema is written in:
	(i)	HLL .
	(ii)	DML
	(iii)	DDL
	(iv)	DCL
(e)		n E-R diagram a relationship is represented
	pà_	
	(i)	Ellipse
	(ii)	Rectangle
	(iii)	Rectangle with rounded corner
	(iv)	
(f)	To remove duplicate row, qualifier must	
	be specified.	
	(i)	Unique
	ſίίλ	Only

(iii)

Distinct

(iv) Single

- (g) If you want to undo a GRANT, you should use:
 - (i) REVOKE
 - (ii) UNDO
 - (iii) UNGRANT
 - (iv) DELETE
- (h) Column is a database relation is also called .
 - (i) Entity
 - (ii) Tuple
 - (iii) Relation
 - (iy) Attribute
- What is normalization in RDBMS? Explain 1NF, 2NF, 3NF and BCNF with suitable examples.
- Explain all types of data model used in DBMS.
- Compare and contrast the traditional file based system with database approach.
- Explain all basic set of operation used in relation algebra with suitable example.
- What is database anomalies? Explain update, insertion, deletion anomalies with suitable example.
- Explain domain constraint, primary key constraint, integrity constraint used on relational database with suitable example.

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- 8. State different language used in database.
- Write short notes on any two of the following:
 - (a) Functional dependencies
 - (b) E-R diagram
 - (c) Metadata
 - (d) Referential integrity

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