MCQ Question: Data refers to describing the data description, representing data semantics, and describing the consistency constraints that apply to the data.
Options:
 Adding Modifying Modeling Refining
Correct Answer: Modeling
MCQ Question: How many types of data models are there?
Options:
1. 1 2. 2 3. 3 4. 4
Correct Answer: 4
MCQ Question: Which of the following is not the type of the data model?
Options:
 Relational Data Model Semi-structured data Model Entity-Relationship Model Process-based Data Model

- 1.
- 2
- 3.

Correct Answer: Process-based Data Model

MCQ Question: What is statement explains the Relational Data Model?

Options:

- 1. Within a table, rows and columns are used to arrange the data.
- 2. As data, objects, and relationships among them are represented logically in this model.
- 3. Functions, encapsulation, and object identity are also considered in addition to the ER model.
- 4. These data models facilitate data specifications where different attributes are defined for the same data items of the same type.

Correct Answer: Within a table, rows and columns are used to arrange the data.

MCQ Question: What is TRUE about Relational Data Model?

Options:

- 1. Tables are used in relational models to represent data and the relationships between them.
- 2. Edgar F. Codd presented this model in 1969.
- 3. Most commercial data processing applications use the relational data model.
- 4. All of the above

Correct Answer: All of the above

MCQ Question: As data objects and relationships among them are represented logically in an

.

Options:

- 1. Relational Data Model
- 2. ER Model
- 3. Object-based Model
- 4. Semi-structured Data Model

Correct Answer: ER Model

MCQ Question: In an ER Model, what are objects also known as?

Options:

- 1. Entity
- 2. Relationship
- 3. Bond
- 4. Joint

Correct Answer: Joint

MCQ Question: _____ are collections of similar types of entities.

Options:

- 1. Relationship Set
- 2. Entity Set
- 3. ER Set
- 4. None of the above

Correct Answer: Entity Set

MCQ Question: Which type of data model is an extension of ER Model?

Options:

- 1. Relational Data Model
- 2. Object-based Data Model
- 3. Structured Data Model
- 4. Semi-structured Data Model

Correct Answer: Object-based Data Model

MCQ Question: What does object refer to in an Object-based data model?

Options:

- 1. Data carrying its properties
- 2. Objects carrying its properties
- 3. Relations carrying its properties
- 4. Models carrying its properties

Correct Answer: Data carrying its properties

MCQ Question: Data specifications can be specified when the same-type data items have different attributes, as in a ____ model.

Options:

- 1. Relational Data Model
- 2. Object-based Data Model
- 3. ER Model
- 4. Semi-structured Data Model

Correct Answer: Semi-structured Data Model

MCQ Question: In many cases, semi-structured data is represented using _____.

Options:

- 1. Extensible Markup Language
- 2. Extension Markup Language
- 3. Extra Markup Language
- 4. Extract Markup Language

Correct Answer: Extensible Markup Language

MCQ Question: Instance and Schemas are part of the –

Options:

- 1. Data Definition
- 2. Data Manipulation

- 3. Data Models
- 4. Data Redundancy

Correct Answer: Data Models		
MCQ Question: A/An	of a database is the data in it at a specific moment in time.	
Options:		
 Schema Instance Instant Scheme 		
Correct Answer: Instance		
MCQ Question: The	of a database describes its overall structure.	
Options:		
 Schema Instance Design Structure 		
Correct Answer: Schema		
MCQ Question: 16. Data so the of the database as a	chemas represent the skeleton structure of a database. They represent a whole.	
Options:		
 Analytical View Logical View Semantic View Practical View 		
Correct Answer: Logical Vi	ew	
MCQ Question: What type	of schema objects are there in schema?	
Options:		

- Primary Key
 Foreign Key
 Views

- 4. All of the above

Correct Answer: All of the above
MCQ Question: What is the process of database creation known as?
Options:
 Data Creation Data Processing Data Modelling Data Defining
Correct Answer: Data Modelling
MCQ Question: Which aspect of schema can be displayed in schema diagram?
Options:
 Record Type Data Type Constraints All of the above
Correct Answer: All of the above
MCQ Question: are designed by database designers to facilitate communications between the database and the software.
Options:
 Database Instances Database Schemas Database Roles Database Structure
Correct Answer: Database Schemas
MCQ Question: diagrams can be used to represent database schemas.
Options:
 Visual Logical Analytical Structural
Correct Answer: Visual

	MCQ Question: Objects and relationships between are shown through the visual diagrams.
	Options:
2. 3.	. Tables . Rows . Columns . Databases
	Correct Answer: Databases
	MCQ Question: The can be used to explain data independence.
	Options:
2. 3.	 One-schema architecture Two-schema architecture Three-schema architecture Four-schema architecture
	Correct Answer: Three-schema architecture
	MCQ Question: An independent database is a system that permits modifications on one level without affecting the on the next level up.
	Options:
2. 3.	 Instance Schema Both a and b None
	Correct Answer: Schema
	MCQ Question: How many types of data independence are there?
	Options:
2. 3.	. 1 . <mark>2</mark> . 3 . 4
	Correct Answer: 2
	MCQ Question: Which of the following is not the type of data independence?
	Options:

1. Logical Data Independence 2. Physical Data Independence 3. Both A and B 4. None Correct Answer: None MCQ Question: An independent conceptual schema can be changed without having to change an schema. **Options:** 1. Internal 2. External 3. Both A and B 4. None Correct Answer: External MCQ Question: Separating external data from ____ data is achieved using logical data independence. **Options:** 1. Logical 2. Conceptual 3. Analytical 4. Physical **Correct Answer:** Conceptual **MCQ Question:** What is TRUE about Logical Data Independence? **Options:** 1. We wouldn't impact the user view of the data if we changed the conceptual view of the data. 2. User interfaces are logically independent of data. 3. Both A and B 4. None of the above

Correct Answer: Both A and B

MCQ Question: It is possible to change the internal schema without affecting the conceptual schema to achieve ____ data independence.

Options:

- Logical
 Physical
 Analytical
 Conceptual

Correct Answer: Physical