

VIRTUAL UNIVERSITY OF PAKISTAN

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Best of luck!



Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

Identify the incorrect statement among the given.

Answer (Please select your correct option)

- ☐ An entity may be an object with a physical existence like a car.
- ☐ Age can be considered as a single value attribute of a person.
- ☐ The attribute Date_of_birth can be considered as a derived attribute.
- ☐ Skill is a multivalued attribute.

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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

_____ Constraint states that primary key can not be null.

Answer (Please select your correct option)

☒ Entity Integrity

☐ Referential Integrity

☐ Null

☐ Domain

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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following shows least amount of detail?

Answer (Please select your correct option)

☐ Context DFD



☐ Level 0 DFD

☐ Level 1 DFD

☐ Level 2 DFD

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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

Incase of Context Level DFD, the System is represented by

Answer (Please select your correct option)

☐ At least one Process

☒ One Process only

☐ Two Processes

☐ Three Processes

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is created by "Database Management System" for its usage?

Answer (Please select your correct option)

☐ Free Standing Data Dictionary

☐ Cross Reference Matrix

☐ Weak Entity

☐ Integrated Data Dictionary

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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is Semantic Data Model?

Answer (Please select your correct option)

☒ E-R Data Model

☐ Hierarchical Data Model

☐ Network Data Model

☐ Relational Data Model

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

Name and _____ are part of the Definitions of an attribute.

Answer (Please select your correct option)

☒ Domain

☐ Symbol

☐ Property

☐ Entity Instance

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

_____ provides the change transparency between Conceptual and External level.

Answer (Please select your correct option)

☒ Physical Data Independence

☐ Concurrency Control

☐ Logical Data Independence

☐ Functional Dependency

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is CORRECT about Three Level Schema Architecture?

Answer (Please select your correct option)

☐ External level presents data to the user

☐ Internal level in a database system will definitely be relational

☐ External Level cannot contain user views

☐ Conceptual Level is core of the architecture

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Question No : 10 of 25

Marks: 1 (Budgeted Time 1 Min)



_____ is not the responsibility of DBMS

Answer (Please select your correct option)

☐

Support for Data Communication

☐

Integrity Services

☐

Data processing

☐

Grant of access rights

✓

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Question No : 11 of 25

Marks: 1 (Budgeted Time 1 Min)

The ER- data model is an example of

Answer (Please select your correct option)

☐ Physical database design

☐ Logical database design

☐ Relational database design

☒ Conceptual database design

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Question No : 12 of 25

Marks: 1 (Budgeted Time 1 Min)

Which of the following design elements does not require an entire table to implement?

Answer (Please select your correct option)

- ☐ Entity
- ☐ Recursive relationship
- ☐ Many-to-Many relationship
- ☐ Multi-valued attribute

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Question No : 13 of 25

Marks: 1 (Budgeted Time 1 Min)

Consider two sets A and B. A contains 3 elements and B contains 4. How many elements do their Cartesian product contains?

Answer (Please select your correct option)

☐ 12



☐ 9

☐ 16

☐ 7

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Question No : 14 of 25

Marks: 1 (Budgeted Time 1 Min)



_____ is not an operation of relational algebra.

Answer (Please select your correct option)

☐ Addition

☐ Union

☐ Cartesian Product

☐ Set Difference

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Question No : 15 of 25

Marks: 1 (Budgeted Time 1 Min)

Which of the following features enforces a relation into 2nd normal form?

Answer (Please select your correct option)

- ☐ Relation is in 1NF and every non-key attribute is partially dependent on super key.
- ☐ Relation is not in 1NF and non-key attribute is non-transitively dependent on primary key.
- ☒ Relation is in 1NF and every non-key attribute is fully functionally dependent on primary key.
- ☐ The domain of attribute may include multiple values.

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Question No : 16 of 25

Marks: 1 (Budgeted Time 1 Min)

If in a relation R, all non key attributes are fully functionally dependent on key attributes. The relation R is in _____.

Answer (Please select your correct option)

☐ 2NF



☐ 3NF

☐ BCNF

☐ Higher NF

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Question No : 17 of 25

Marks: 1 (Budgeted Time 1 Min)

A Student has five courses at max registered in a semester and there are many students as well in a course.
Student and Course entities have _____ cardinality.

Answer (Please select your correct option)

☐ One to One

☐ One to Many

☐ Many to One

☒ Many to Many

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Question No : 18 of 25

Marks: 1 (Budgeted Time 1 Min)

$R \times \theta S$, If R and S are relations and θ is a _____.

Answer (Please select your correct option)

☐ Table Name

☐ Attributes

☐ Primary Key

☒ Condition

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Question No : 19 of 25

Marks: 1 (Budgeted Time 1 Min)

Which of the following represents a valid Primary Key for a Student Registration table?

Answer (Please select your correct option)

☒ Student-ID

☐ Student-Father-Name

☐ Student-Class

☐ Student-Semester

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Question No : 20 of 25

Marks: 1 (Budgeted Time 1 Min)

Which of the following Normal Form deals with multi valued dependency?

☐ 2NF

☐ 3NF

☒ 4NF

☐ 5NF

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Question No : 21 of 25

Marks: 2 (Budgeted Time 4 Min)

List down the two types of Completeness Constraints.

Answer ([Please click here to Add Answer](#))



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Question No : 22 of 25

Marks: 2 (Budgeted Time 4 Min)

“Student CGPA (StdCGPA) is identified through student name (StdName)”

Represent the above statement into the functional dependency (FD) notation.

Answer ([Please click here to Add Answer](#))



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Question No : 23 of 25

Marks: 3 (Budgeted Time: 6 Min)

Employee

Emp-ID	Emp-Name	City
1	ABC	Lahore
2	DEF	Islamabad
3	GHI	Lahore
4	JKL	Karachi

Answer ([Please click here to Add Answer](#))



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Question No : 23 of 25

Marks: 3 (Budgeted Time: 6 Min)

2	DEF	Islamabad
3	GHI	Lahore
4	JKL	Karachi

Dept-Head

Head-ID

Dept-Name

Answer ([Please click here to Add Answer](#))



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Dept-Head

Head-ID	Dept-Name
1	HR Dept
3	Accounts Dept

Answer ([Please click here to Add Answer](#))

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Question No : 23 of 25

Marks: 3 (Budgeted Time 6 Min)

1	HR Dept
3	Accounts Dept

We have two relations Employee and Dept-Head. You have to write resultant table after applying Semi join on these two relations as Employee X (Semi Join) Dept-Head.
Where,
Condition for Semi Join is, Employee.Emp-ID = Dept-Head.Head-ID

Answer ([Please click here to Add Answer](#))



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Question No : 24 of 25

Marks: 3 (Budgeted Time: 6 Min)

Why do the relational data model considered as simple?

Answer ([Please click here to Add Answer](#))



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Question No : 25 of 25

Marks: 5 (Budgeted Time 10 Min)

Course

Course-ID	Course-Title	Instructor-ID	Instructor-Specialization
101	ABC	1	PQR
201	DEF	2	STU
301	GHI	1	PQR

Answer ([Please click here to Add Answer](#))



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Question No : 25 of 25

Marks: 5 (Budgeted Time 10 Min)

101	ABC	1	PQR
201	DEF	2	STU
301	GHI	1	PQR
401	JKL	3	YZX
402	MNO	4	ASD

Answer ([Please click here to Add Answer](#))



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401	JKL	3	YZX
402	MNO	4	ASD

Answer (Please [click here](#) to Add Answer)

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Question No : 25 of 25

Marks: 5 (Budgeted Time 10 Min)

402	MNO	4	ASD
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Where
Course-ID is a Primary Key of the relation Course

Find that the relation is in which normal form and also discuss, how Update Anomalies would occur in the relation.

Answer ([Please click here to Add Answer](#))



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Consider the following two columns. The Column A consists of terms related to the ER model and Column B consists of terms used in the relational model.

Column A	Column B
1. Entity Type	A. Primary or Candidate Key
2. Key Attribute	B. Domain
3. Composition Attribute	C. Relation and foreign Key

Answer ([Please click here to Add Answer](#))



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Question No : 26 of 25

Marks: 5 (Budgeted Time 10 Min)

1. Entity Type	A. Primary or Candidate Key
2. Key Attribute	B. Domain
3. Composition Attribute	C. Relation and foreign Key
4. Multi-Valued Attribute	D. Set of simple component attributes
5. Value Set	E. Relation

Answer ([Please click here to Add Answer](#))



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Question No : 26 of 25

Marks: 5 (Budgeted Time 10 Min)

3. Composition Attribute	C. Relation and foreign Key
4. Multi-Valued Attribute	D. Set of simple component attributes
5. Value Set	E. Relation

The terms in Column A have been mapped to Column B so that it corresponds to the mapping process of the ER Model into a Relational model. Map each of the entry in column A to the appropriate entry in column B?

Answer ([Please click here to Add Answer](#))



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