

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

Correct answer solved by hadi
Cell No:03228043306
Email: usmanraj20@gmail.com

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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

Correct answer solved by hadi
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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

Correct answer solved by hadi
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☐ 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

Correct answer solved by hadi
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☐ 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 26

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 26

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

Correct answer solved by hadi
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Question No : 12 of 26

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 26

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

Correct answer solved by hadi
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☐ 9

☐ 16

☐ 7

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Question No : 14 of 26

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 26

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.

Correct answer solved by hadi
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Question No : 16 of 26

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 26

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 26

Marks: 1 (Budgeted Time 1 Min)

R X θ S, If R and S are relations and θ is a _____.

Answer (Please select your correct option)

☐ Table Name

☐ Attributes

☐ Primary Key

☒ Condition

Correct answer solved by hadi
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Question No : 19 of 26

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 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ 2NF

☐ 3NF

☒ 4NF

☐ 5NF

Correct answer solved by hadi
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Question No : 21 of 26

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 26

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 26

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 26

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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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

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 26

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 26

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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Made By: Waqar Siddhu

Question No : 25 of 26

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 26

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](#))

 100%

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

| | | | |
|-----|-----|---|-----|
| 401 | JKL | 3 | YZX |
| 402 | MNO | 4 | ASD |

Where
Course-ID is a Primary Key of the relation Course

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

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

| | | | |
|-----|-----|---|-----|
| 402 | MNO | 4 | ASD |
|-----|-----|---|-----|

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](#))

Normal | Arial | 12 | B I U | [Icons] | 100%

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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

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 26

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 26

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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