

# VIRTUAL UNIVERSITY OF PAKISTAN

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CORRECT ANSWER SOLVED BY HADI  
EMAIL-hadirajputofficial@gmail.com  
WHATSAPP& CALL-03087122922

**TEAM HADI(VU LAHORE)**

## MID TERM PAST PAPER

We Deal All Kind of VU Project  
(PHP, .NET, ANDROID, PYTHON)

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**WhatsApp:03087122922**



**FACEBOOK ID: <https://www.facebook.com/hadipastpapers/>**

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 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

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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



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.

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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  $\theta$  S, If R and S are relations and  $\theta$  is a \_\_\_\_\_.

Answer ( Please select your correct option )

Table Name

Attributes

Primary Key

Condition

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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

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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
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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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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](#) )

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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
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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](#) )

Normal Arial 12 B I U

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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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