

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

Maximum Cardinality shows that how many _____ of one entity can be placed in another relation at most.

Answer (Please select your correct option)

Keys

Instances

Attributes

Relationships

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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

Identify the incorrect statement among the given.

Answer (Please select your correct option)

- Employee cannot be considered as an entity.
- Existence of course in a degree program can be considered as an entity.
- Student "ID" can be considered as a single value attribute.
- Parking Area can be considered as an entity.

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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is true about NOT NULL constraint?

Answer (Please select your correct option)

- enforce domain integrity.
- limit the values that can be placed in a column.
- prevents any actions that would destroy links between tables with the corresponding data values.
- enforces the uniqueness of the values in a set of columns.

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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

“Database System” is the combination of _____.

Answer (Please select your correct option)

Database and DBMS

Database and Data

Data and Information

Operating System and Database

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

Metadata is also known as _____ for the real world data.

Answer (Please select your correct option)

Attribute



Schema

Entity

Relation

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Question No : 6 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 : 7 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 : 8 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 : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is the input to Analysis Phase?

Answer (Please select your correct option)

DFD



Logical database design

Physical database design

Data model

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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider two sets A and B. A contains 2 elements and B contains 3. How many elements do their Cartesian product contains?

Answer (Please select your correct option)

6

9

4

5

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is true for the relation (table)?

Answer (Please select your correct option)

- Degree of a relation is not possible to determine
- Candidate key can be chosen as a primary key of a relation.
- Primary key always consists of a single attribute
- Primary key can not be selected from the set of candidate key

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Question No : 12 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 : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

If W, X, Y and Z are attributes of a relation, which of the following inference rules for functional dependencies is correct?

Answer (Please select your correct option)

If $(X, Z) \rightarrow Y$ then $X \rightarrow Y$ and $Z \rightarrow Y$



If $X \rightarrow Y$ and $X \rightarrow Z$ then $X \rightarrow Y, Z$

If $X \ni Y$ then $Y \rightarrow X$

If $X \rightarrow Y$ then $X, Z \rightarrow Y, W$

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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not a benefit of normalization?

Answer (Please select your correct option)

Minimize insertion anomalies

Minimize deletion anomalies

Minimize updating anomalies

Maximize redundancy

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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

Association between entities is called as _____.

Answer (Please select your correct option)

Attribute

Relationship

Primary Key

Relation

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

If $D \rightarrow E, F$ then $D \rightarrow E$ and $D \rightarrow F$.
This inference rules is called as _____.

Answer (Please select your correct option)

Transitivity

Additive

Projectivity

Augmentation

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

DBA is not responsible for _____

Answer (Please select your correct option)

- Monitoring Disk Space
- Database Backup
- Managing Print Jobs
- Development of Database Application Programs

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

A relation (from the relational database model) consists of a set of tuples, which implies that

Answer (Please select your correct option)

- it supports multi-valued attributes whose values can be represented in sets.
- for any two tuples, the values associated with all of their attributes may be the same.
- for any two tuples, the values associated with one or more of their attributes must differ.
- all tuples in a particular relation may have different attributes.

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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following constraints enforces Entity Integrity?

Answer (Please select your correct option)

PRIMARY KEY

FOREIGN KEY

CHECK

NOT NULL

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

In _____ normal form, all determinants are candidate keys.

Answer (Please select your correct option)

3NF

BCNF

4NF

5NF

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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

If we map a unary relationship into relation and ERD has one to one cardinality then what would be the mapping procedure?

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



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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

Relate Column A with Column B of the given table. You are only required to mention the index of both columns in a way as mentioned below.

5 -> e

Column A	Column B
1 - θ	a - Equi Join

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


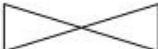

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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

1 -		a - Equi Join
2 -		b - Semi Join
3 -		c - Theta Join

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

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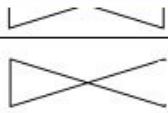

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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

3 -		b - Semi Join
4 -		d - Projection

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

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Relation 1

Student ID	Name	Address	Degree ID
1	ABC	ABC123	Null
Default	XYZ	XYZ123	01
2	WXY	WXY123	05

Answer (Please click here to Add Answer)

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Relation 2

Degree ID	Degree Title	Duration
01	BCS	4 Years
02	MCS	2 Years
03	MSCS	2 Years

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

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

03	MSCS	2 Years
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Where, Degree ID is a reference / foreign key in Relation 1.

Specify the constraint (s) applied on FK (Foreign Key) in the case given above from the list provided. Also justify your answer.

[Referential, Default, Domain]

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

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Convert the following relation into one normal form ahead. (For example: if relation is in 2nd normal form, convert it into 3rd normal form.)

Student

Student-ID	Student-Name	Father-Name	City	Hobby
------------	--------------	-------------	------	-------

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

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Student

Student-ID	Student-Name	Father-Name	City	Hobby
1	ABC	BC	Lahore	Cricket, Movies
2	DEF	EF	Islamabad	Football, Basketball

Answer (Please click here to Add Answer)

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

				Movies
2	DEF	EF	Islamabad	Football, Basketball
3	GHI	HI	Lahore	Movies, Body building,

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

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

				Body building, Badminton
4	JKL	KL	Karachi	Cricket

Answer (Please click here to Add Answer)

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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Draw Cross Reference Matrix for the given diagram. Where

I, II, III and IV are Reports of an organization.

A, B, C, D, E and F are Attributes of these Reports.

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



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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)



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

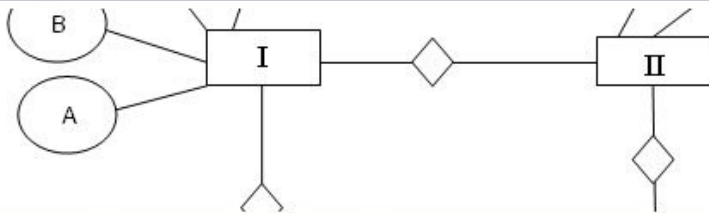


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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)



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

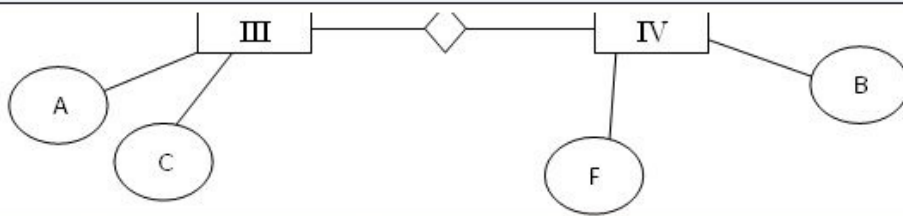


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Question No : 25 of 26

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



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Question No : 26 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 : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

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

Where

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

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Question No : 26 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 [List icons] 100%

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