

VIRTUAL UNIVERSITY OF PAKISTAN

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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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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 $X \supseteq Y$ 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 rule 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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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

		b - Theta Join
3 -		c - Theta 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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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
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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](#))

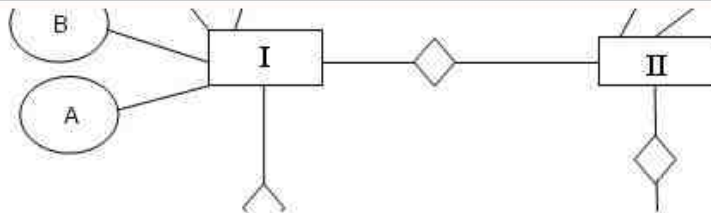


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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)



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

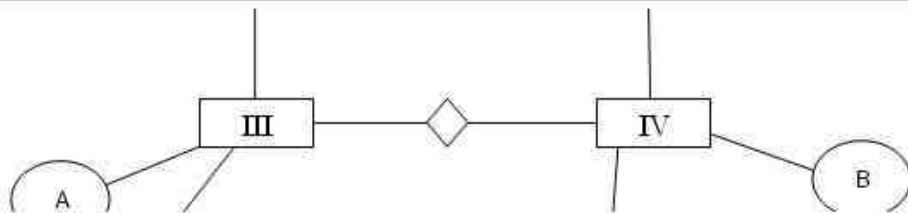


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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)



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

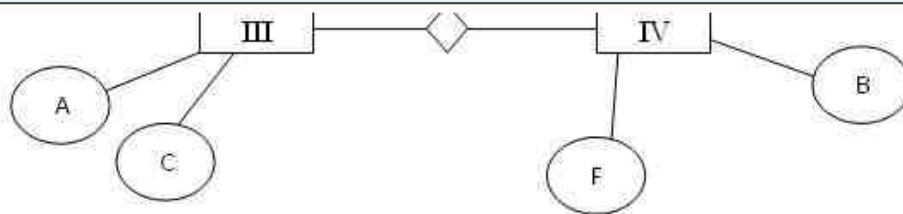


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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)



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



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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](#))

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