

# VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI  
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**TEAM HADI(VU LAHORE)**

## MID TERM PAST PAPER

We Deal All Kind of VU Project  
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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)

Rephrase the following statement in bi-conditional form  
"If you get up early in the morning, you will be healthy"

Answer ( Please select your correct option )

You will be healthy if and only if you get up early in the morning

correct

If you will be healthy then you will get up early in the morning

If you will get up early in the morning then you will be healthy

None of these

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Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

Reductio ad absurdum law is symbolically denoted as

Answer ( Please select your correct option )

$(p \wedge q) \rightarrow r \equiv p \rightarrow (q \rightarrow r)$

$p \leftrightarrow q \equiv (p \rightarrow q) \wedge (q \rightarrow p)$

$p \rightarrow q \equiv \sim p \vee q$

$p \rightarrow q \equiv (p \wedge \sim q) \rightarrow c$

correct

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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

A critical row is that in which \_\_\_\_\_ premises have truth value T.

Answer ( Please select your correct option )

at least one

exactly one

all

at least two

correct

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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

What will be the output of an OR-gate if it has inputs 0 and 1?

Answer ( Please select your correct option )

0

1

2

3

correct

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

Let  $U$  be the universal set and  $A$  is its subset then  $A \cup A^c$  is equal to

Answer ( Please select your correct option )

$A$

correct

$A^c$

$\phi$

$U$

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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

Identify the false statement

Answer ( Please select your correct option )

- $0 \in \phi$
- $\{\phi\} \subseteq \{\phi\}$
- If A and B are two sets  $A \subseteq B$  and  $B \subseteq A$  then  $A = B$
- Two sets are disjoint if their intersection is empty set

correct

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

If  $A$  and  $S$  are two reflexive relations then  $A \cap S$  will be

Answer ( Please select your correct option )

Symmetric

Reflexive

Transitive

correct

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Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

Symmetric and Anti-symmetric relations are

Answer ( Please select your correct option )

negative of each other.

same.

not negative of each other.

correct

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

If two relations are reflexive then their composition is

Answer ( Please select your correct option )

Anti-symmetric

Reflexive

correct

Irreflexive

Symmetric

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Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

Inverse of relation can be obtained by

Answer ( Please select your correct option )

changing signs of elements in order pairs.

changing position of elements in order pairs.

taking multiplicative inverse of elements in order pairs.



correct

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

Let  $A \times A = \{(1,1), (1,2), (1,3), (2,1), (2,2), (2,3), (3,1), (3,2), (3,3)\}$ , find which one of the given relations is a function.

Answer ( Please select your correct option )

$R_1 = \{(1,3), (2,2), (3,1)\}$

$R_2 = \{(1,1), (1,2), (2,1)\}$

$R_3 = \{(2,2), (2,3), (3,1)\}$

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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

If  $f(x) = 2x + 1$  and  $g(x) = x^2 - 1$  then  $f \circ f(x) =$

Answer ( Please select your correct option )

$4x - 3$

$4x^2 + 1$

$4x + 3$

$4x^2 - 1$



correct

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Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

Let  $f$  and  $g$  be the functions defined by  $f(x) = 2x + 3$  and  $g(x) = 3x + 2$  then composition of  $f$  and  $g$  is

Answer ( Please select your correct option )

$6x + 6$

correct



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$5x + 5$

$6x + 7$

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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

The negation of  $1 < x < 10$  is  $x \leq 1$  or  $x \geq 10$  by using:

Answer ( Please select your correct option )

Distributive Law

Inequality Law

De-Morgan's Law

None of these

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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

If the  $n$ th term of a sequence is  $a_n = 2(-3)^n + 5^n$  then the term  $a_1$  is

Answer ( Please select your correct option )

-1

0

1

2

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

The part of definition which can be expressed in terms of smaller versions of itself is called

Answer ( Please select your correct option )

Recursion

correct



Conclusion

Base

Restriction

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

The tower of Hanoi is a puzzle consisting of

Answer ( Please select your correct option )

2 people



3 people



4 people



correct

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

The same element can never appear ----- in a set.

Answer ( Please select your correct option )

twice

correct

once

thrice

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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

If  $(A \cup B) = A$  then

Answer ( Please select your correct option )

$(A \cap B) = B^c$

$(A \cap B) = A$

$(A \cap B) = B$

correct

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

If  $p$  = It is raining

$q$  = She will go to college

"It is raining and she will not go to college" will be denoted by

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Answer ( Please select your correct option )

$p \wedge \neg q$

correct

$p \wedge q$

$\neg (p \wedge q)$

$\neg p \wedge q$

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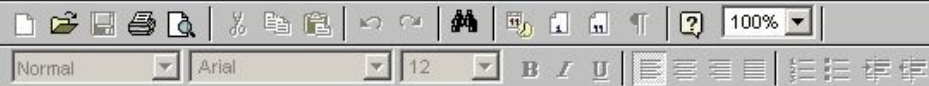
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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

Determine whether the function  $f(x) = x + 1$  is one-to-one?

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



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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

Compute the first four terms of the sequence defined by the formula  $a_n = 3n - 5$ .

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



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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Show that  $f(x) = x^3 + 1$  is onto function.

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



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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Find the sum of the infinite G.P  $2, \sqrt{2}, 1, \dots$

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

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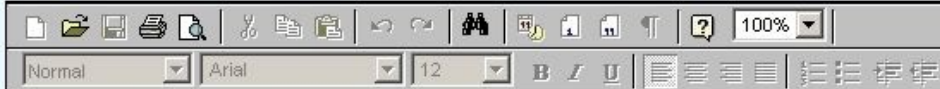
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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Let  $A = \{a, b, c, d\}$  be a set and consider the relation  $R = \{(a, a), (a, b), (a, c), (a, d), (b, b), (b, d), (c, c), (c, d), (d, d)\}$  on  $A$ . Show that  $R$  is a partial ordering.

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



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Let  $f(x) = ax + b$  and  $g(x) = cx + d$ , where  $a, b, c$  and  $d$  are constants. Under what condition  $f \circ g(x) = g \circ f(x)$ .

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

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