

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)

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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 # 7 of 30 (Start time: 12:02:48 PM, 01 January 2021)

Total Marks: 1

Power set of empty set has exactly _____ subset.

Select the correct option

☐	one
☐	two
☒	zero
☐	three

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Question # 30 of 30 (Start time: 12:17:55 PM, 01 January 2021)

Total Marks: 1

Two matrices A and B are added, if

Select the correct option

☐	both are rectangular	
☒	both have same order	
☐	no. of columns of A is equal to columns of B	
☐	none	

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Question # 22 of 30 (Start time: 12:13:00 PM, 01 January 2021)

Total Marks: 1

An arrangement of finite numbers of objects taken some or all at a time is called their

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Select the correct option

☐	A.P	
☐	Combination	
☐	Sequence	
☒	Permutation	

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Question # 9 of 30 (Start time: 12:03:58 PM, 01 January 2021)

Total Marks: 1

Determinant of null matrix is---

Select the correct option

☐	1
☒	0
☐	3
☐	2

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Question # 13 of 30 (Start time: 12:06:52 PM, 01 January 2021)

Total Marks: 1

Which of the following matrix has an inverse?

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Select the correct option

☐

Singular matrix

☒

Non-singular matrix

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Question # 14 of 30 (Start time: 12:07:53 PM, 01 January 2021)

Total Marks: 1

All letters in a word LOVE taken all at a time can be arranged in

Select the correct option

☒	4 ways
☐	8 ways
☐	12 ways
☐	24 ways

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Question # 19 of 30 (Start time: 12:11:05 PM, 01 January 2021)

Total Marks: 1

 $[a \ b \ c]$ is a

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Select the correct option

☐	zero matrix	
☐	diagonal matrix	
☐	column matrix	
☒	row matrix	

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Question # 26 of 30 (Start time: 12:15:46 PM, 01 January 2021)

Total Marks: 1

Which of the following is the correct formula for finding the 4th term in a geometric sequence?

Select the correct option

Reload Math Equations

☐	$a_4 = ar^5$
☒	$a_4 = ar^3$
☐	$a_4 = ar$
☐	none of the above

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If a , r and a^n are the first, common ratio and the n th term respectively of the geometric sequence then $a^n =$

Select the correct option

☐	ar^n
☐	ar^{n+1}
☒	ar^{n-1}
☐	0

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Select the correct option

☐	A.P	
☐	Combination	
☐	Sequence	
☒	Permutation	

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Question # 9 of 30 (Start time: 12:03:58 PM, 01 January 2021)

Total Marks: 1

Determinant of null matrix is---

Select the correct option

☐	1
☒	0
☐	3
☐	2

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Question # 13 of 30 (Start time: 12:06:52 PM, 01 January 2021)

Total Marks: 1

Which of the following matrix has an inverse?

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Select the correct option

☐

Singular matrix

☒

Non-singular matrix

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Question # 14 of 30 (Start time: 12:07:53 PM, 01 January 2021)

Total Marks: 1

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Select the correct option

☒	4 ways
☐	8 ways
☐	12 ways
☐	24 ways

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Question # 23 of 30 (Start time: 12:13:35 PM, 01 January 2021)

Total Marks: 1

What is the cardinality of the set of odd positive integers less than 10?

Select the correct option

☐	10
☒	5
☐	3
☐	20

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Question # 27 of 30 (Start time: 12:16:08 PM, 01 January 2021)

Total Marks: 1

The transpose of row matrix is

Select the correct option

- | | | |
|----------------------------------|-----------------|--|
| ☐ | zero matrix | |
| ☐ | diagonal matrix | |
| ☒ | column matrix | |
| ☐ | row matrix | |

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Question # 20 of 30 (Start time: 12:11:41 PM, 01 January 2021)

Total Marks: 1

A Square matrix with ones on the diagonal and zeros elsewhere is called a/an matrix.

Select the correct option

☐	Null
☐	Scalar
☐	Diagonal
☒	Identity

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Question # 12 of 30 (Start time: 12:06:24 PM, 01 January 2021)

Total Marks: 1

The reciprocal of the complex number i is

Select the correct option

- | | |
|----------------------------------|----|
| ☐ | -1 |
| ☒ | -i |
| ☐ | 1 |
| ☐ | i |

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Question # 28 of 30 (Start time: 12:17:04 PM, 01 January 2021)

Total Marks: 1

The multiplicative inverse of a matrix A is

Select the correct option

☐	-A
☐	A
☐	A^2
☒	$\frac{adj A}{ A }$

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Question # 29 of 30 (Start time: 12:17:25 PM, 01 January 2021)

Total Marks: 1

How many different rearrangements are there of the letters in the word BUBBLE?

Select the correct option

☐	40	
☐	50	
☐	70	
☒	120	

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