VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future
CORRECT ANSWER SOLVED BY HADI
EMAIL:hadirajputofficial@gmail.com
WHATSAPP& CALL:03087122922
TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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MADE AND SOLVED BY HADI

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!

PAST PAPER

MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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

Total Marks: 1

Power set of empty set has exactly _____ subset.

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Select the correct option

- one
- two
- zero
- three

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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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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sec(s)

MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

Question # 25 of 30 (Start time: 12:15:19 PM, 01 January 2021)

Total Marks: 1

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

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Select the correct option

Reload Math Equations

- ○ ar^n
- ○ ar^{n+1}
- ● ar^{n-1}
- ○ 0

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Quiz Start Time: 11:57 AM, 01 January 2021

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

Total Marks: 1

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Select the correct option

- A.P
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Total Marks: 1

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Quiz Start Time: 11:57 AM, 01 January 2021

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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Total Marks: 1

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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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?

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Select the correct option

- 10
- 5
- 3
- 20

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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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.

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Select the correct option

- Null
- Scalar
- Diagonal
- Identity

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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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

Total Marks: 1

The multiplicative inverse of a matrix A is

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Select the correct option

Reload Math Equations

- -A
- |A|
- A^2
- $\frac{adjA}{|A|}$

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MTH102:Grand Quiz

Quiz Start Time: 11:57 AM, 01 January 2021

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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