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MC180401165: RABIA MAQSOOD

Time Left

84
sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 22 of 30 (Start time: 10:37:33 AM, 09 July 2020)

Total Marks: 1

Vector space X is called real vector space if

Select the correct option

Reload Math Equations

☒	$K = \mathbb{R}$
☐	$K = \mathbb{C}$
☐	$K = \mathbb{Q}$
☐	$K = \mathbb{N}$

Click to Save Answer & Move to Next Question





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MC180401165: RABIA MAQSOOD

Time Left

53
sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 12 of 30 (Start time: 10:28:05 AM, 09 July 2020)

Total Marks: 1

Vector space X is called complex vector space if

Select the correct option

Reload Math Equations



$$K = \mathbb{R}$$



$$K = \mathbb{C}$$



$$K = \mathbb{Q}$$



$$K = \mathbb{N}$$

Click to Save Answer & Move to Next Question





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MC180401165: RABIA MAQSOOD

Time Left 74 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 16 of 30 (Start time: 10:32:20 AM, 09 July 2020)

Total Marks: 1

Let $(\mathbb{R}, d)$ be a usual metric space and $\mathbb{Q} \subseteq \mathbb{R}$, then which of the following is correct option?

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|--|
| ☐ | The set of limit points of $\mathbb{Q}$ is open. |
| ☐ | The set of limit points of $\mathbb{Q}$ is closed. |
| ☒ | The set of limit points of $\mathbb{Q}$ is an empty set. |
| ☐ | None of them. |

Click to Save Answer & Move to Next Question





58%



10:34 a.m.



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MC180401165: RABIA MAQSOOD

Time Left

68

sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 17 of 30 (Start time: 10:33:37 AM, 09 July 2020)

Total Marks: 1

 $\mathbb{R}^3$ is

Select the correct option

Reload Math Equations



finite dimensional.



infinite dimensional.



not a vector space.



zero vector space.

Click to Save Answer & Move to Next Question





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MC180401165: RABIA MAQSOOD

Time Left

83
sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 28 of 30 (Start time: 10:44:08 AM, 09 July 2020)

Total Marks: 1

If M is a compact metric space then M has a ____.

Select the correct option

Reload Math Equations

☒	Heine Borel Property
☐	Mean Value property

Click to Save Answer & Move to Next Question





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MC180401165: RABIA MAQSOOD

Time Left 82 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 11 of 30 (Start time: 10:27:16 AM, 09 July 2020)

Total Marks: 1

Let $f : X \rightarrow Y$ be a continuous map between metric spaces. Then $f(X)$ is a compact subset of Y if ____.

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|---------------------------|
| ☒ | the space X is compact |
| ☐ | the space Y is compact |
| ☐ | the space X is complete |
| ☐ | the space Y is complete |

Click to Save Answer & Move to Next Question





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MC180401165: RABIA MAQSOOD

Time Left

78
sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 7 of 30 (Start time: 10:22:58 AM, 09 July 2020)

Total Marks: 1

Let $(\mathbb{R}, d)$ be a usual metric space and $\mathbb{N} \subseteq \mathbb{R}$, then which of the following is correct option?

Select the correct option

Reload Math Equations

☐	$\mathbb{N}$ has finite limit points.
☐	$\mathbb{N}$ has infinite limit points.
☒	$\mathbb{N}$ has no limit point.
☐	None of them.

Click to Save Answer & Move to Next Question





MC180401165: RABIA MAQSOOD

Time Left 77 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 9 of 30 (Start time: 10:25:12 AM, 09 July 2020)

Total Marks: 1

Discrete Metric Space on a set X is defined as $d(x,y)=$

Select the correct option

Reload Math Equations



$$\begin{cases} 2, & x = y \\ 1, & x \neq y \end{cases} \quad \forall x, y \in X$$



$$\begin{cases} 1, & x = y \\ 0, & x \neq y \end{cases} \quad \forall x, y \in X$$



$$\begin{cases} 0, & x = y \\ 1, & x \neq y \end{cases} \quad \forall x, y \in X$$



$$\begin{cases} -1, & x = y \\ 1, & x \neq y \end{cases} \quad \forall x, y \in X$$

Click to Save Answer & Move to Next Question





MC180401165: RABIA MAQSOOD

Time Left

66
sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 18 of 30 (Start time: 10:34:25 AM, 09 July 2020)

Total Marks: 1

$\mathbb{R}^n$ is

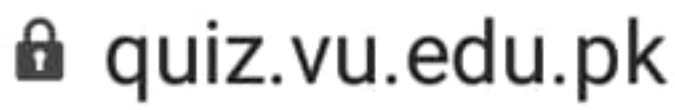
Select the correct option

Reload Math Equations

☒	Euclidean space and complete.
☐	Euclidean space and incomplete.
☐	Unitary space and complete.
☐	Unitary space and incomplete.

Click to Save Answer & Move to Next Question





Time Left 85 sec(s)

Quiz Start Time: 10:16 AM, 09 July 2020

Total Marks: 1

Select the correct option

Reload Math Equations

☐	Vector space.
☐	Normed space.
☐	Banach space.
☒	space of all types mentioned.

[Click to Save Answer & Move to Next Question](#)





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MC180401165: RABIA MAQSOOD

Time Left 82 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 20 of 30 (Start time: 10:36:09 AM, 09 July 2020)

Total Marks: 1

For a metric space (X, d) , the property $d(x, y) = d(y, x), \forall x, y \in X$ is called —property.

Select the correct option

Reload Math Equations

☐	Non negativity
☐	Reflexive
☒	Symmetric
☐	None of them

Click to Save Answer & Move to Next Question





MC180401165: RABIA MAQSOOD

Time Left 50 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 10 of 30 (Start time: 10:26:18 AM, 09 July 2020)

Total Marks: 1

If “d” is a discrete metric on $\mathbb{R}$, then $d(3,2)=...$

Select the correct option

- | | |
|----------------------------------|----|
| ☐ | 0 |
| ☒ | 1 |
| ☐ | 2 |
| ☐ | -1 |

Click to Save Answer & Move to Next Question





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MC180401165: RABIA MAQSOOD

Time Left 74 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 15 of 30 (Start time: 10:31:23 AM, 09 July 2020)

Total Marks: 1

In $\mathbb{R}^2$ an open neighborhood is

Select the correct option

Reload Math Equations

☒	An open disc
☐	An open ball
☐	An open interval
☐	An open sphere

Click to Save Answer & Move to Next Question





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MC180401165: RABIA MAQSOOD

Time Left 83 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 23 of 30 (Start time: 10:38:17 AM, 09 July 2020)

Total Marks: 1

Every subspace of vector space $X (\neq \{0\})$ is called

Select the correct option

Reload Math Equations

☒	proper.
☐	improper.
☐	special subspace.
☐	zero vector space.

Click to Save Answer & Move to Next Question





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MC180401165: RABIA MAQSOOD

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sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 21 of 30 (Start time: 10:36:47 AM, 09 July 2020)

Total Marks: 1

If $F_1, F_2, F_3, \dots, F_n, \dots$ be a sequence of closed sets such that $F_1 \supseteq F_2 \supseteq F_3 \supseteq \dots \supseteq F_n \supseteq \dots$, then $\bigcap_n F_n$ is nonempty.

Select the correct option

Reload Math Equations

True



False



Click to Save Answer & Move to Next Question





MC180401165: RABIA MAQSOOD

Time Left 85 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 30 of 30 (Start time: 10:45:58 AM, 09 July 2020)

Total Marks: 1

Asequence in a metric space is Cauchy Sequence.

Select the correct option



Convergent



Bounded



Divergent



Subsequence

Click to Save Answer & Move to Next Question





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MC180401165: RABIA MAQSOOD

Time Left

30
sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 24 of 30 (Start time: 10:39:11 AM, 09 July 2020)

Total Marks: 1

If $(\mathbb{R}, d)$ be a usual metric space, then 3.2 is an interior point of the set $A = (-3, 3)$.

Select the correct option

Reload Math Equations



True



False



Click to Save Answer & Move to Next Question





MC180401165: RABIA MAQSOOD

Time Left 47 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 13 of 30 (Start time: 10:29:04 AM, 09 July 2020)

Total Marks: 1

A mapping from a normed space into a normed space is called

Select the correct option



operator.



functional.



continuous mapping.



norm.

Click to Save Answer & Move to Next Question





MC180401165: RABIA MAQSOOD

Time Left 40 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 25 of 30 (Start time: 10:40:25 AM, 09 July 2020)

Total Marks: 1

$$(0, 2) \cap [1, 3] =$$

Select the correct option

☒ [1, 2)

☐ [1, 2]

☐ (1, 2)

☐ (1, 2]

Click to Save Answer & Move to Next Question





MC180401165: RABIA MAQSOOD

Time Left 39 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 8 of 30 (Start time: 10:23:53 AM, 09 July 2020)

Total Marks: 1

$L^2[a, b]$ is

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|-----------------|
| ☐ | Normed space. |
| ☐ | Complete space. |
| ☒ | Banach space. |
| ☐ | Null space. |



Click to Save Answer & Move to Next Question





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MC180401165: RABIA MAQSOOD

Time Left 81 sec(s)

MTH641:Grand Quiz

Quiz Start Time: 10:16 AM, 09 July 2020

Question # 26 of 30 (Start time: 10:41:35 AM, 09 July 2020)

Total Marks: 1

Let E be a subset of a metric space (X, d) . We say that E is open if and only if_____.

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|--|
| ☐ | every point in E is an adherent point |
| ☐ | E has no boundary |
| ☒ | every point in E is an interior point |
| ☐ | E does not contain any adherent points |

Click to Save Answer & Move to Next Question

