22:41

Quiz
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MC200200322: MUHAMMAD ASIF ALI

Time Left 86 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 10:34 PM, 25 February 2021

Question # 6 of 10 (Start time: 10:41:30 PM, 25 February 2021)

Total Marks: 1

Every Topological Space is a first countable space.

Select the correct option

- True
- False

Click to Save Answer & Move to Next Question

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22:39

Quiz
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MC200200322: MUHAMMAD ASIF ALI

Time Left 88 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 10:34 PM, 25 February 2021

Question # 4 of 10 (Start time: 10:38:57 PM, 25 February 2021)

Total Marks: 1

Consider $\mathbb{R}$ with usual topology. Then $A = (0, 1) \cup (3, 5]$ is disconnected subset of $\mathbb{R}$.

Select the correct option

Reload Math Expressions

- True
- False

Click to Save Answer & Move to Next Question

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Quiz
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MC200200322: MUHAMMAD ASIF ALI

Time Left 88 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 10:34 PM, 25 February 2021

Question # 8 of 10 (Start time: 10:44:11 PM, 25 February 2021)

Total Marks: 1

A set X with cofinite topology is compact.

Select the correct option

- True
- False

Click to Save Answer & Move to Next Question

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Question # 8 of 10 (Start time: 10:18:50 PM, 25 February 2021) Total Marks: 1

Consider $\mathbb{R}$ with usual topology. Which of the following sets are separated?

Select the correct option

Reload Math Equations

- A=(0,1), B=(4,9]
- A=(-1,3), B=[3,5)
- A=(0,2), B=[2,5)
- none

Click to Save Answer & Move to Next Question

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MTH634:Quiz No 3

Quiz Start Tim

Question # 9 of 10 (Start time: 10:08:26 PM, 25 February 2021)

Consider $\mathbb{R}$ with usual topology. Which of the following sets are separated?

Select the correct option

- A=(0,1), B=(4,9]
- A=(-1,3), B=[3,5)
- A=(0,2), B=[2,5)
- none

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MTH634:Quiz No 3

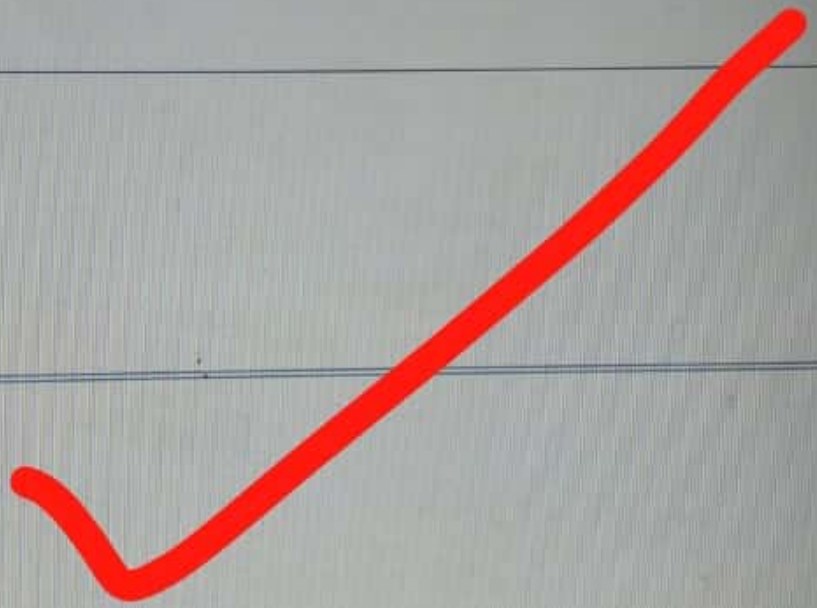
Quiz Start Time:

Question # 5 of 10 (Start time: 09:57:47 PM, 25 February 2021)

If (X, τ) be a compact Hausdorff space then (X, τ) is not normal.

Select the correct option

- ○ True
- ○ False



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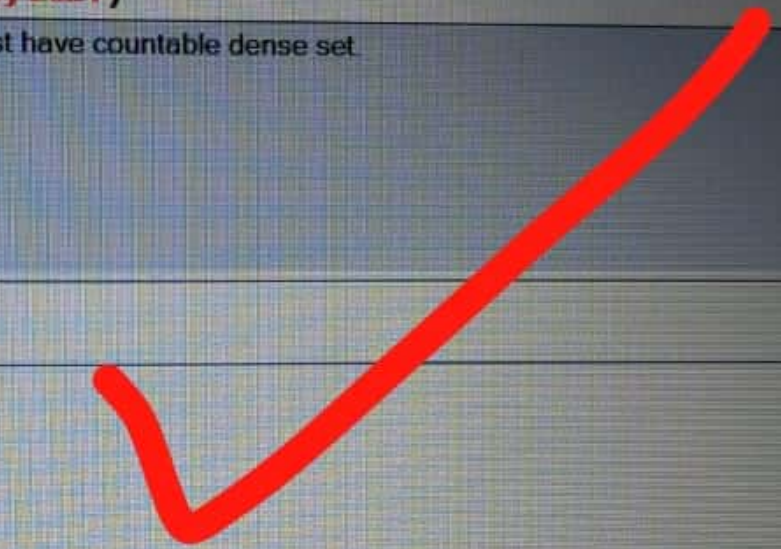
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Question # 4 of 10 (Start time: 09:57:12 PM, 25 February 2021)

If $\left({X,\tau } \right)$ be a separable topology then it must have countable dense set

Select the correct option

- True
- False



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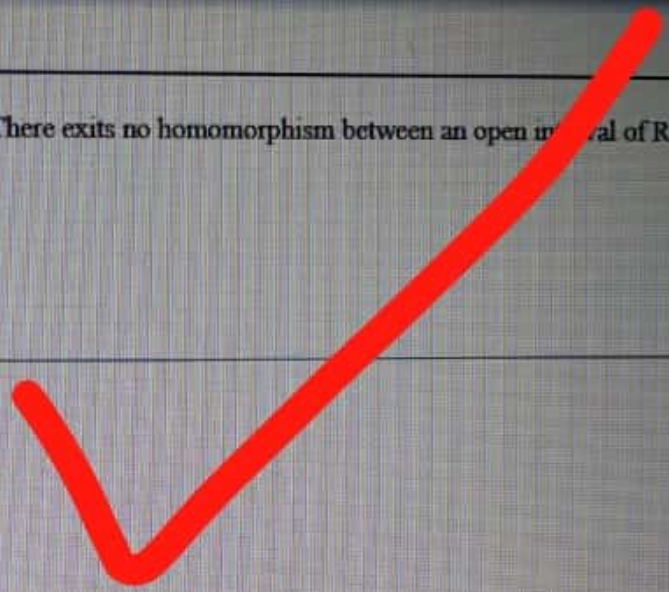
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Question # 3 of 10 (Start time: 09:56:31 PM, 25 February 2021)

Consider R with usual topology. There exits no homomorphism between an open interval of R and a closed interval of R.

Select the correct option

- True
- False



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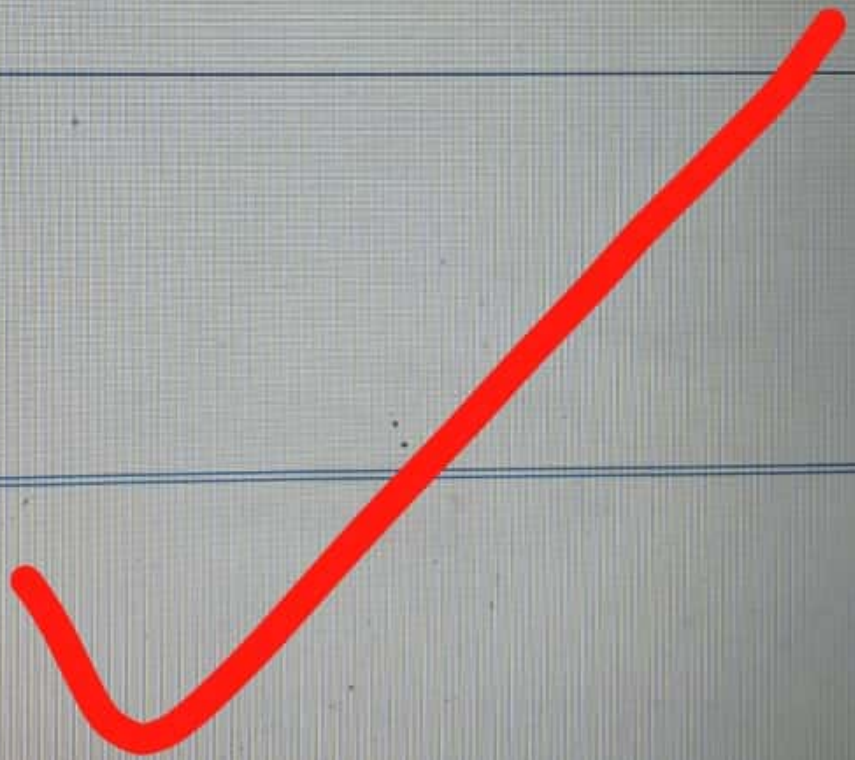
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Question # 1 of 10 (Start time: 09:55:01 PM, 25 February 2021)

Every discrete space is not a regular space.

Select the correct option

- True
- False



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Question # 10 of 10 (Start time: 10:02:50 PM, 25 February 2021)

All the metric spaces are not normal spaces.

Select the correct option

- True
- False



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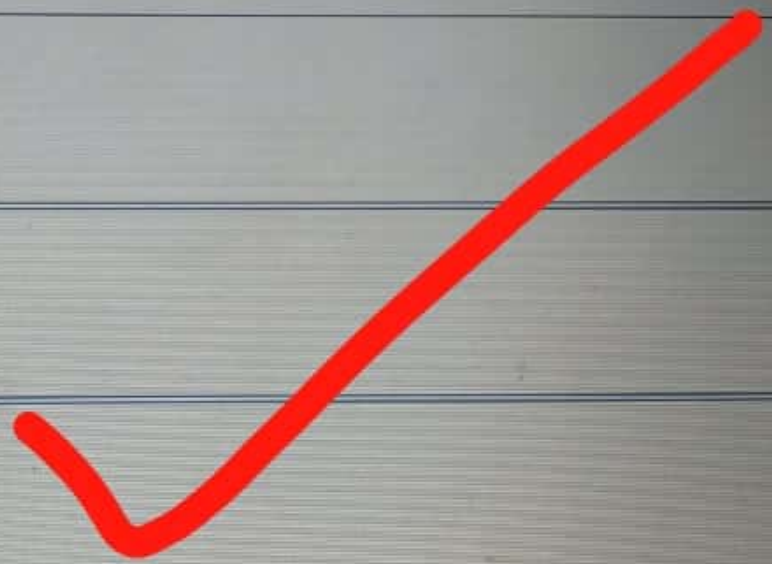
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Question # 9 of 10 (Start time: 10:01:51 PM, 25 February 2021)

Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{\emptyset, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on X, then the local base (B_x) of the point $x = 2$ is_____

Select the correct option

- $\{\{1\}, \{2\}, X\}$.
- $\{\{2\}, \{1, 2\}, X\}$.
- $\{\{1\}, \{1, 2\}, \{2\}, X\}$.
- None of them.



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Question # 8 of 10 (Start time: 10:00:49 PM, 25 February 2021)

Let $X = \{1, 2, 3, 4\}$ and $\tau = \{\emptyset, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on X, then which of the following is true ?

Select the correct option

- (X, τ) be a first countable space.
- (X, τ) be a topological space.
- Every element of X has countable local base.
- All of them.

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MTH634:Quiz No 3

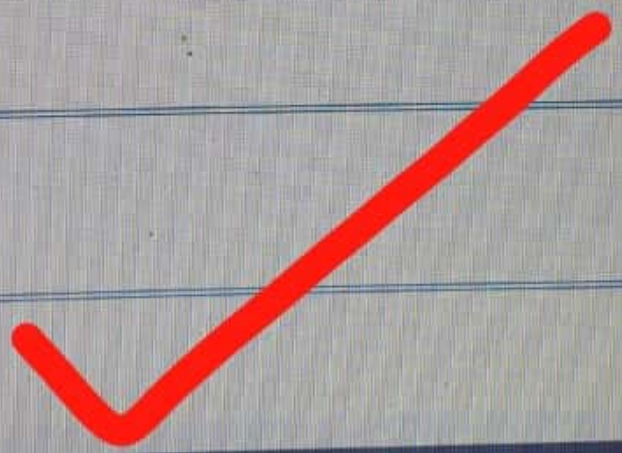
Quiz Start Time

Question # 6 of 10 (Start time: 09:58:17 PM, 25 February 2021)

Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{\emptyset, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on X, then the local base (B_x) of the point $x = 3, 4, 5$ is_____

Select the correct option

○	$\{\{1\}, \{2\}, X\}$
○	$\{\{2\}, \{1, 2\}, X\}$
○	$\{X\}$
○	None of them



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MTH634:Quiz No 3

Quiz Start Time:

Question # 5 of 10 (Start time: 09:57:47 PM, 25 February 2021)

If (X, τ) be a compact Hausdorff space then (X, τ) is not normal.

Select the correct option

- ○ True
- ○ False



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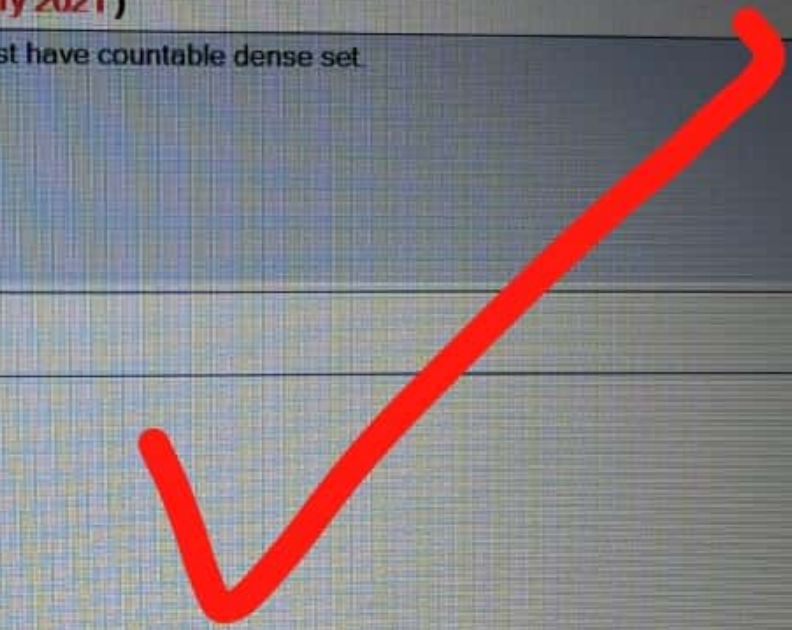
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Question # 4 of 10 (Start time: 09:57:12 PM, 25 February 2021)

If $\left({X,\tau } \right)$ be a separable topology then it must have countable dense set

Select the correct option

- True
- False



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Question # 10 of 10 (Start time: 10:20:38 PM, 25 February 2021) **Total Marks: 1**

An open interval in

$\mathbb{R}$

with usual topology is not compact.

Select the correct option

Reload Math Equations

- True
- False

Click to Save Answer & Move to Next Question

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22:37

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MC200200322: MUHAMMAD ASIF ALI

Time Left 78 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 10:34 PM, 25 February 2021

Question # 3 of 10 (Start time: 10:37:14 PM, 25 February 2021)

Total Marks: 1

Which of the following statement is false?

Select the correct option

- A set X with indiscrete topology is compact.
- A set X with any topology containing finite number subsets of X is compact.
- A finite set X with any topology is compact.
- An infinite set X with discrete topology is compact.

Click to Save Answer & Move to Next Question

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Question # 3 of 10 (Start time: 10:13:36 PM, 25 February 2021) Total Marks: 1

A topological space X is called a connected space iff there exists a pair of subsets of X both nonempty and both open and closed.

Select the correct option

Reload Math Equations

- True
- False

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Question # 4 of 10 (Start time: 10:14:41 PM, 25 February 2021) **Total Marks: 1**

Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{\emptyset, \{3\}, \{4\}, \{3, 4\}, X\}$ be a topology on X, then which of the following is true?

Select the correct option

Reload Math Equations

○	The set $\{\emptyset, \{4\}\}$ is an open cover of the set $\{4\}$.
○	The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}$.
○	The set $\{\emptyset, \{3\}, \{4\}, X\}$ is an open cover of the set $\{4\}$.
○	All of them.



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Question # 2 of 10 (Start time: 10:12:50 PM, 25 February 2021) Total Marks: 1

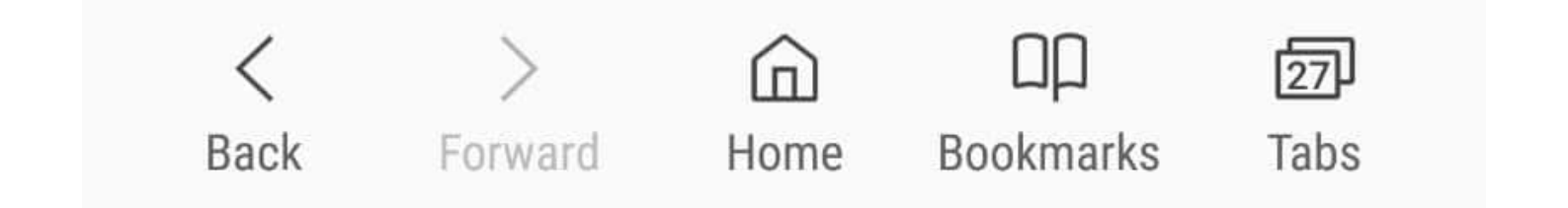
Let $X = \{1, 2, 3, 4\}$ and $\tau = \{\emptyset, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on X, then which of the following is true ?

Select the correct option

Reload Math Equations

○	(X, τ) be a first countable space.
○	(X, τ) be a topological space.
○	Every element of X has countable local base.
○	All of them.

Click to Save Answer & Move to Next Question



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Question # 7 of 10 (Start time: 10:17:03 PM, 25 February 2021) Total Marks: 1

Let $X = \{1, 2, 3, 4\}$ and $\tau = \{\emptyset, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on X, then which of the following is NOT true ?

Select the correct option

Reload Math Equations

- (X, τ) be a first countable space.
- (X, τ) be a topological space.
- Every element of X has uncountable local base.
- The local base of the element 4 is $\emptyset$.

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Quiz
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MC200203684: MAHMOOD AHMAD

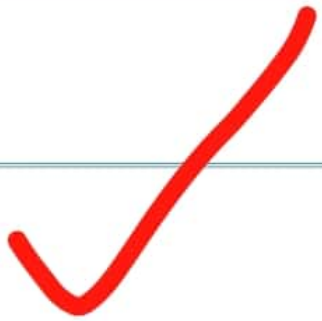
MTH634:Quiz No 3 Quiz Start Time: 08:15 P

Question # 10 of 10 (Start time: 08:24:27 PM, 25 February 2021)

If (X, τ) be a compact Hausdorff space then (X, τ) is not normal.

Select the correct option

- ○ True
- ○ False



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MC190403382: ASIF ALI

Time Left 88 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 05:54 PM, 25 February 2021

Question # 9 of 10 (Start time: 06:03:29 PM, 25 February 2021) Total Marks: 1

Let $X = \{a, b, c\}$ and $\tau = \{\emptyset, \{a\}, \{b\}, \{a, b\}, X\}$ be a topology on X, if $B = \{\emptyset, \{a\}, \{b\}, X\}$ be the base of τ, then which of the following is true ?

Select the correct option

Reload Math Equations

- B be the countable base.
- (X, τ) be a first countable space.
- (X, τ) be a second countable space.
- All of them

Click to Save Answer & Move to Next Question

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Which of the following statement is false?

Select the correct option

- Every metric space is second countable.
- Every metric space is Hausdorff space.
- Every metric space is normal space.
- none

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quiz.vu.edu.pk/QuizQues

MC190405639: MUSHTAQ AHMAD

Time Left 88 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 10:32 PM, 25 February 2021

Question # 6 of 10 (Start time: 10:37:26 PM, 25 February 2021) Total Marks: 1

Which of the following statement is false?

Select the correct option

Load Math Equations

○	Discrete topology on a countable set X is second countable.
○	Any finite set with any topology is second countable.
○	Discrete topology on a real line R is second countable.
○	The set $\mathbb{R}$ with usual topology is second countable.

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MC200203684: MAHMOOD AHMAD

Time Left 90 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 08:15 PM, 25 February 2021

Question # 5 of 10 (Start time: 08:18:37 PM, 25 February 2021)

Total Marks: 1

Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{\emptyset, \{3\}, \{4\}, \{3, 4\}, X\}$ be a topology on X, then which of the following is true?

Select the correct option

Reload Math Equations

- The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}$.
- The set $\{\emptyset, \{3\}, \{4\}, X\}$ is an open cover of the set $\{4\}$.
- The set $\{\emptyset, \{3\}, \{4\}\}$ is an open sub-cover of $\{\emptyset, \{3\}, \{4\}, X\}$.
- All of them

Click to Save Answer & Move to Next Question

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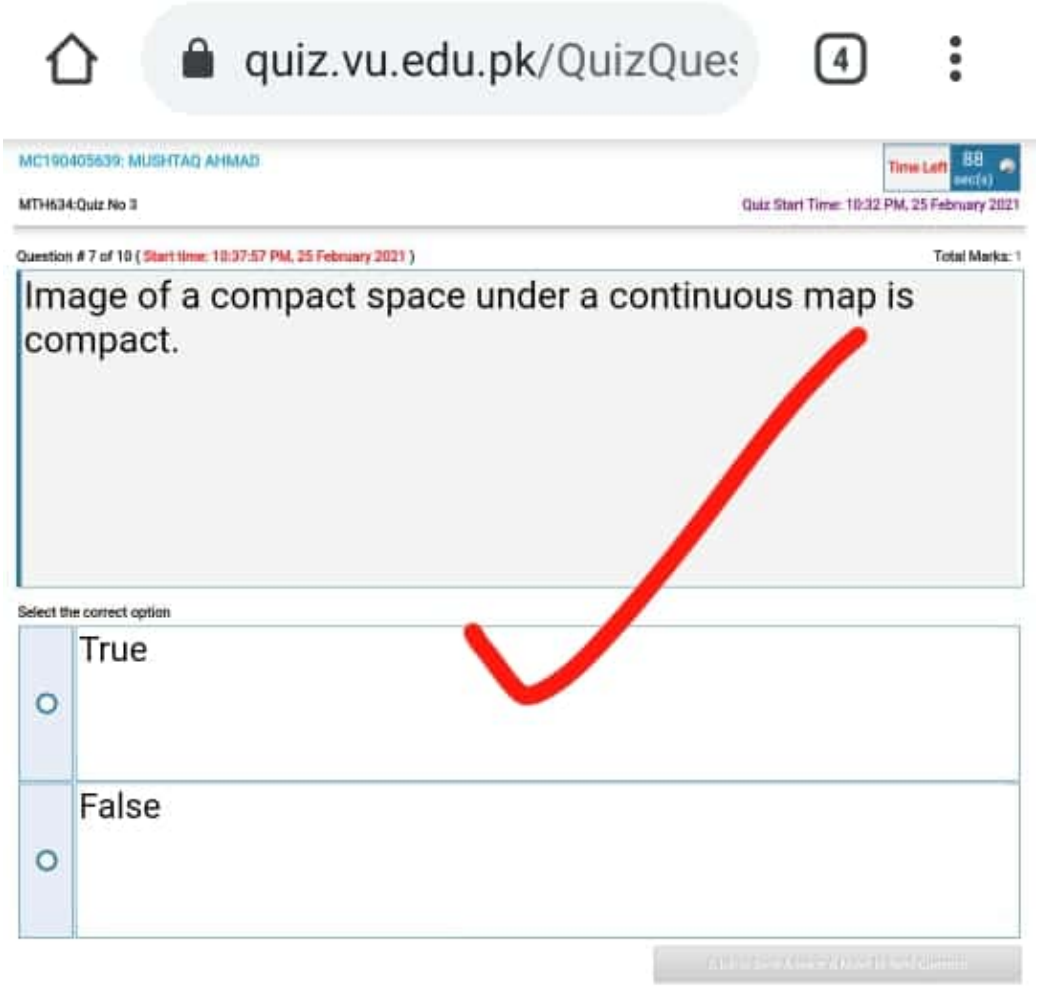
Every Topological Space is a first countable space.

Select the correct option

- ○ True
- ○ False

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MC200203684: MAHMOOD AHMAD

Time Left 89 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 08:15 PM, 25 February 2021

Question # 3 of 10 (Start time: 08:17:06 PM, 25 February 2021)

Total Marks: 1

Every closed subspace of a compact space is compact.

Select the correct option

- True
- False

Click to Save Answer & Move to Next Question

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quiz.vu.edu.pk/QuizQues

MC190405639: MUSHTAQ AHMAD

Time Left 88 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 10:32 PM, 25 February 2021

Question # 10 of 10 (Start time: 10:40:47 PM, 25 February 2021) Total Marks: 1

Let $X = \left\{ a,b,c} \right\}$ and $\tau = \left\{ \emptyset ,\{ a\} ,\{ b\} ,\{ a,b\} ,X} \right\}$ be a topology on X. if $B = \left\{ \emptyset ,\{ a\} ,\{ b\} ,X} \right\}$ be the base of $\tau $, then which of the following is true ?

Select the correct option

Reload Math Equations

- B be the countable base.
- $\left(X,\tau \right)$ be a first countable space.
- $\left(X,\tau \right)$ be a second countable space.
- All of them

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Quiz
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MC200200322: MUHAMMAD ASIF ALI

Time Left 86 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 10:34 PM, 25 February 2021

Question # 5 of 10 (Start time: 10:40:06 PM, 25 February 2021)

Total Marks: 1

Which of the following statement is true?

Select the correct option

Reload M... Equations

- $\mathbb{R}$ with usual topology is compact.
- $\mathbb{R}$ with indiscrete topology is compact.
- $\mathbb{R}$ with discrete topology is compact.
- $\mathbb{R}$ with cofinite topology is not compact.

Click to Save Answer & Move to Next Question

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MC190405639: MUSHTAQ AHMAD

Time Left 86 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 10:32 PM, 25 February 2021

Question # 9 of 10 (Start time: 10:46:09 PM, 25 February 2021)

Total Marks: 1

Which of the following statement is false?

Select the correct option

- A set X with indiscrete topology is compact.
- A set X with any topology containing finite number subsets of X is compact.
- A finite set X with any topology is compact.
- An infinite set X with discrete topology is compact.

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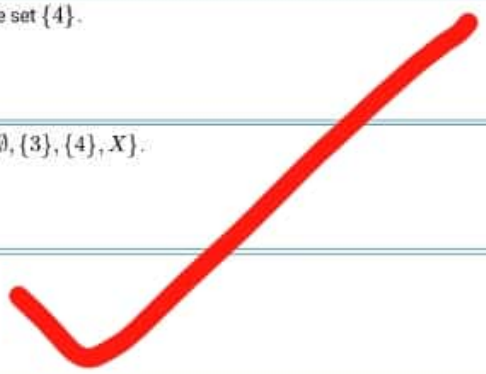
Question # 9 of 10 (Start time: 10:19:50 PM, 25 February 2021) **Total Marks: 1**

Let $X = \{1,2,3,4,5,6\}$ and $\tau = \{\emptyset, \{3\}, \{4\}, \{3,4\}, X\}$ be a topology on X, then which of the following is true?

Select the correct option

Reload Math Equations

○	The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}$.
○	The set $\{\emptyset, \{3\}, \{4\}, X\}$ is an open cover of the set $\{4\}$.
○	The set $\{\emptyset, \{3\}, \{4\}\}$ is an open sub-cover of $\{\emptyset, \{3\}, \{4\}, X\}$.
○	All of them



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Quiz
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MC200200322: MUHAMMAD ASIF ALI

Time Left 85 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 10:34 PM, 25 February 2021

Question # 7 of 10 (Start time: 10:42:43 PM, 25 February 2021)

Total Marks: 1

If (X, τ) be a compact Hausdorff space then (X, τ) is not normal.

Select the correct option

Reload Math Equations

- True
- False

Click to Save Answer & Move to Next Question

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Question # 6 of 10 (Start time: 10:16:10 PM, 25 February 2021) Total Marks: 1

Every compact subspace of a Hausdorff space is not closed.

Select the correct option

- ○ True
- ○ False



Click to Save Answer & Move to Next Question

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Quiz
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MC200200322: MUHAMMAD ASIF ALI

Time Left 88 sec(s)

MTH634:Quiz No 3

Quiz Start Time: 10:34 PM, 25 February 2021

Question # 8 of 10 (Start time: 10:44:11 PM, 25 February 2021)

Total Marks: 1

A set X with cofinite topology is compact.

Select the correct option

- True
- False

Click to Save Answer & Move to Next Question

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