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MC210203377: MUQADDAS BIBI

Time Left 90 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 06:50 AM, 15 February 2022

Question # 1 of 10 (start time: 06:50:46 AM, 15 February 2022)

Total Marks: 1

Which of the following statement is false?

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Select the correct option

Reload 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 \mathbb{R} is second countable. Correct
- The set \mathbb{R} with usual topology is second countable.

Click to Save Answer & Move to Next Question



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Time Left 90 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 06:50 AM, 15 February 2022

Question # 2 of 10 (start time: 06:52:02 AM, 15 February 2022)

Total Marks: 1

Every Topological Space is a first countable space.

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Select the correct option

<input type="radio"/>	False
<input checked="" type="radio"/>	True

Correct

Click to Save Answer & Move to Next Question



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Time Left 88 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 06:50 AM, 15 February 2022

Question # 5 of 10 (start time: 06:54:20 AM, 15 February 2022)

Total Marks: 1

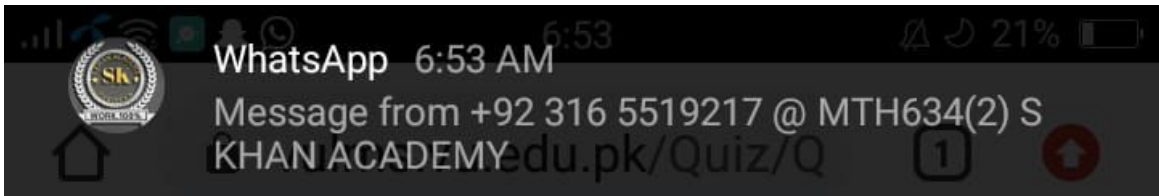
Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{\emptyset, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on X , then the local base (B_x) of the point $x = 3, 4, 5$ is.....

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question



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Time Left 90 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 06:50 AM, 15 February 2022

Question # 4 of 10 (start time: 06:53:37 AM, 15 February 2022)

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?

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Select the correct option

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[Reload Math Equations](#)

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

Correct

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Time Left 89 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 06:50 AM, 15 February 2022

Question # 3 of 10 (start time: 06:52:48 AM, 15 February 2022)

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

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

Correct

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Time Left 89 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 06:50 AM, 15 February 2022

Question # 7 of 10 (start time: 06:56:47 AM, 15 February 2022)

Total Marks: 1

Which of the following statement is false?

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Reload 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 \mathbb{R} is second countable Correct
- The set \mathbb{R} with usual topology is second countable.

Click to Save Answer & Move to Next Question



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Time Left 89 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 06:50 AM, 15 February 2022

Question # 10 of 10 (Start time: 07:00:57 AM, 15 February 2022)

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 ?

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Select the correct option

Reload Math Equations

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

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Time Left 90 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 06:50 AM, 15 February 2022

Question # 6 of 10 (start time: 06:55:36 AM, 15 February 2022)

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

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MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 06:50 AM, 15 February 2022

Question # 9 of 10 (Start time: 06:59:45 AM, 15 February 2022)

Total Marks: 1

If SX has more than two points and \mathcal{T} be an indiscrete topology then which of the following statement is true about (X, \mathcal{T}) ?

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Select the correct option

- It is not metrizable. Correct
- None of them.
- It is metrizable.
- It is Hausdorff.

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Time Left 90 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 06:50 AM, 15 February 2022

Question # 8 of 10 (start time: 06:58:13 AM, 15 February 2022)

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 $\{2\}$.
- None of them.
- The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}$. Correct
- The set $\{\emptyset, \{3\}\}$ is an open cover of the set $\{4\}$.

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Separable Spaces

Def:

A topological space (X, \mathcal{T}) is said to be "Separable" if there exists a countable dense subset A of X .

i.e.

- $\exists A \subset X$ such that
1. A is countable.
 2. $\bar{A} = X$.



MC210200645: MUHAMMAD SHEHZAD

Time Left 89 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 12:26 PM, 15 February 2022

Question # 7 of 10 (start time: 12:29:21 PM, 15 February 2022)

Total Marks: 1

If $s \setminus \left\{ x, \tau \right\}$ be a separable topology then it must have countable dense set.

Select the correct option

False



Correct

True



Click to Save Answer & Move to Next Question





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Time Left 89
sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 12:26 PM, 15 February 2022

Question # 10 of 10 (Start time: 12:31:15 PM, 15 February 2022)

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

<input type="radio"/>	B be the countable base.	
<input type="radio"/>	(X, τ) be a first countable space.	
<input checked="" type="radio"/>	All of them	Correct
<input type="radio"/>	(X, τ) be a second countable space.	

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MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 12:26 PM, 15 February 2022

Question # 9 of 10 (start time: 12:30:40 PM, 15 February 2022)

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

- | | |
|----------------------------------|---|
| <input type="radio"/> | Every element of X has uncountable local base. |
| <input type="radio"/> | (X, τ) be a topological space. |
| <input checked="" type="radio"/> | The local base of the element 4 is \emptyset . Correct |
| <input type="radio"/> | (X, τ) be a first countable space. |

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sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 12:26 PM, 15 February 2022

Question # 8 of 10 (start time: 12:29:51 PM, 15 February 2022)

Total Marks: 1

If $S \times S$ has more than two points and $\mathcal{S} \setminus \left\{ \{x, \tau\} \right\}$ be an indiscrete topology then which of the following statement is true about $\mathcal{S} \setminus \left\{ \{x, \tau\} \right\}$?

Select the correct option

<input checked="" type="radio"/>	It is not metrizable.	Correct
<input type="radio"/>	It is metrizable.	
<input type="radio"/>	It is Hausdorff.	
<input type="radio"/>	None of them.	

Click to Save Answer & Move to Next Question





Question # 5 of 10 (start time: 12:28:17 PM, 15 February 2022)

Total Marks: 1

Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{0, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on X , then the local base (B_x) of the point $x = 2$ is.....

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question



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Time Left 89 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 12:26 PM, 15 February 2022

Question # 3 of 10 (start time: 12:27:18 PM, 15 February 2022)

Total Marks: 1

Every metric space is first countable.

Select the correct option

True



Correct

False



Click to Save Answer & Move to Next Question





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Time Left 89
sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 12:26 PM, 15 February 2022

Question # 4 of 10 (start time: 12:27:47 PM, 15 February 2022)

Total Marks: 1

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

Select the correct option

Reload Math Equations

- | | | |
|----------------------------------|--|---------|
| <input checked="" type="radio"/> | (X, τ) be a second countable space. | Correct |
| <input type="radio"/> | (X, τ) be a Topological space. | |
| <input type="radio"/> | (X, τ) be a first countable space. | |
| <input type="radio"/> | All of them. | |

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Time Left
88
sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 12:26 PM, 15 February 2022

Question # 6 of 10 (start time: 12:28:48 PM, 15 February 2022)

Total Marks: 1

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 $x = 1$ is.....

Select the correct option

Reload Math Equations

- | | |
|----------------------------------|-----------------------------------|
| <input type="radio"/> | $\{\{1\}, \{2\}, X\}$. |
| <input type="radio"/> | None of them |
| <input checked="" type="radio"/> | $\{\{1\}, \{1, 2\}, X\}$. |
| <input type="radio"/> | $\{\{1\}, \{2\}, \{1, 2\}, X\}$. |

Correct

Click to Save Answer & Move to Next Question





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Time Left 88 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 12:26 PM, 15 February 2022

Question # 2 of 10 (start time: 12:26:52 PM, 15 February 2022)

Total Marks: 1

Metric topology induced by $d(x, y) = \begin{cases} 0 & \text{if } x = y \\ 1 & \text{if } x \neq y \end{cases}$ is called _____

Select the correct option

Reload Math Equations

- | | | |
|----------------------------------|---------------------|----------------|
| <input checked="" type="radio"/> | discrete topology | Correct |
| <input type="radio"/> | indiscrete topology | |
| <input type="radio"/> | None of them | |
| <input type="radio"/> | usual topology | |

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Time Left 87
sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 12:26 PM, 15 February 2022

Question #1 of 10 (start time: 12:26:13 PM, 15 February 2022)

Total Marks: 1

Which of the following statement is false?

Select the correct option

Reload Math Equations

<input type="radio"/>	The set \mathbb{R} with usual topology is second countable.
<input checked="" type="radio"/>	Discrete topology on a real line \mathbb{R} is second countable
<input type="radio"/>	Discrete topology on a countable set X is second countable.
<input type="radio"/>	Any finite set with any topology is second countable.

Correct

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Question # 8 of 10 (Start time: 12:22:53 PM, 15 February 2022)

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](#)

- | | |
|-----------------------|--|
| <input type="radio"/> | (X, τ) be a second countable space. |
| <input type="radio"/> | All of them Correct |
| <input type="radio"/> | (X, τ) be a first countable space. |
| <input type="radio"/> | B be the countable base. |

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

Question # 9 of 10 (Start time: 12:23:49 PM, 15 February 2022)

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](#)

- | | | |
|-----------------------|---|---------|
| <input type="radio"/> | The set $\{\emptyset, \{3\}\}$ is an open cover of the set $\{4\}$. | |
| <input type="radio"/> | The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}$. | Correct |
| <input type="radio"/> | None of them. | |
| <input type="radio"/> | The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{2\}$. | |

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Question #10 of 10 (Start time: 12:24:32 PM, 15 February 2022)

Total Marks: 1

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

[Reload Math Equations](#)

- | | |
|-----------------------|----------------------------|
| <input type="radio"/> | None of them. |
| <input type="radio"/> | $\{\{1\}, \{2\}, X\}$. |
| <input type="radio"/> | $\{\{2\}, \{1, 2\}, X\}$. |
| <input type="radio"/> | $\{X\}$. Correct |

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Question # 7 of 10 (start time: 12:22:10 PM, 15 February 2022)

Total Marks: 1

Which of the following statement is true?

Select the correct option

<input checked="" type="radio"/>	All spaces are not metrizable.	Correct
<input type="radio"/>	All spaces are metrizable.	

Click to Save Answer & Move to Next Question

Question # 6 of 10 (start time: 12:21:07 PM, 15 February 2022)

Total Marks: 1

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_____

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Select the correct option

- | | | |
|----------------------------------|---------------------------------|---------|
| <input checked="" type="radio"/> | $\{\{2\}, \{1, 2\}, X\}$ | Correct |
| <input type="radio"/> | None of them. | |
| <input type="radio"/> | $\{\{1\}, \{1, 2\}, \{2\}, X\}$ | |
| <input type="radio"/> | $\{\{1\}, \{2\}, X\}$ | |

Click to Save Answer & Move to Next Question

Question # 5 of 10 (start time: 12:19:51 PM, 15 February 2022)

Total Marks: 1

Let (X, τ) be a metrizable then which of the following statement is true

select the correct option

[Reload Math Equations](#)

<input checked="" type="radio"/>	All of them	Correct
<input type="radio"/>	(X, τ) is separable.	
<input type="radio"/>	(X, τ) has the countable chain collection	
<input type="radio"/>	(X, τ) is second countable.	

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Question # 2 of 10 (Start time: 12:16:41 PM, 15 February 2022)

Total Marks: 1

If (X, τ) be a separable topology then it must have countable dense set.

Select the correct option

<input type="radio"/>	False	Correct
<input type="radio"/>	True	

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Question # 3 of 10 (start time: 12:17:38 PM, 15 February 2022)

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](#)

- | | |
|-----------------------|--|
| <input type="radio"/> | (X, τ) be a topological space. |
| <input type="radio"/> | Every element of X has countable local base. |
| <input type="radio"/> | (X, τ) be a first countable space. |
| <input type="radio"/> | All of them. |

Correct

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Question # 4 of 10 (start time: 12:18:22 PM, 15 February 2022)

Total Marks: 1

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

Select the correct option

[Reload Math Equations](#)

- | | |
|-----------------------|--|
| <input type="radio"/> | (X, τ) be a first countable space. |
| <input type="radio"/> | (X, τ) be a second countable space. |
| <input type="radio"/> | All of them. |
| <input type="radio"/> | (X, τ) be a Topological space. |

Correct

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Question # 1 of 10 (Start time: 12:15:55 PM, 15 February 2022)

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](#)

- | | |
|-----------------------|--|
| <input type="radio"/> | (X, τ) be a first countable space. |
| <input type="radio"/> | (X, τ) be a topological space. |
| <input type="radio"/> | Every element of X has uncountable local base. |
| <input type="radio"/> | The local base of the element 4 is \emptyset . |

Correct

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MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:30 AM, 15 Feb

Question # 10 of 10 (start time: 10:37:07 AM, 15 February 2022)

Te

Metric topology induced by $d(x, y) = |x - y|$ on \mathbb{R} is called ______.

select the correct option

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- None of them
- indiscrete topology
- usual topology ✓ Correct
- discrete topology

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Question # 8 of 10 (Start time: 11:15:47 AM, 15 February 2022)

Total Marks: |

Metric topology induced by $d(x, y) = \begin{cases} 0 & \text{if } x = y \\ 1 & \text{if } x \neq y \end{cases}$ is called _ _ _ _ _ _.

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	None of them
<input type="radio"/>	Indiscrete topology
<input checked="" type="radio"/>	discrete topology
<input type="radio"/>	usual topology

Correct

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Question # 9 of 10 (Start time: 11:16:23 AM, 15 February 2022)

Total Marks: 1

Let (X, τ) be a metrizable then which of the following statement is true:

Select the correct option

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- | | |
|----------------------------------|--|
| <input type="radio"/> | (X, τ) is second countable. |
| <input type="radio"/> | (X, τ) is separable. |
| <input checked="" type="radio"/> | All of them |
| <input type="radio"/> | (X, τ) has the countable chain collection |

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Correct

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Question # 10 of 10 (Start time: 11:17:22 AM, 15 February 2022)

Total Marks: 1

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.....

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Select the correct option

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<input type="radio"/>	$\{\{2\}, \{1, 2\}, X\}$
<input checked="" type="radio"/>	$\{X\}$ Correct
<input type="radio"/>	$\{\{1\}, \{2\}, X\}$
<input type="radio"/>	None of them.

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Question # 7 of 10 (Start time: 11:15:05 AM, 15 February 2022)

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 ?

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Select the correct option [VUAnswer.com](https://www.vuanswer.com)

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<input type="radio"/>	(X, τ) be a topological space.	
<input checked="" type="radio"/>	The local base of the element 4 is \emptyset .	Correct
<input type="radio"/>	(X, τ) be a first countable space.	
<input type="radio"/>	Every element of X has uncountable local base.	

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Question # 6 of 10 (Start time: 11:14:21 AM, 15 February 2022)

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](#)

- | | |
|----------------------------------|---|
| <input type="radio"/> | Every element of X has countable local base. |
| <input checked="" type="radio"/> | All of them. Correct |
| <input type="radio"/> | (X, τ) be a first countable space. |
| <input type="radio"/> | (X, τ) be a topological space. |

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Question # 5 of 10 (Start time: 11:13:32 AM, 15 February 2022)

Total Marks: |

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

[Reload Math Equations](#)

- | | | |
|----------------------------------|---------------------------------|---------|
| <input type="radio"/> | $\{\{1\}, \{1, 2\}, \{2\}, X\}$ | |
| <input checked="" type="radio"/> | $\{\{2\}, \{1, 2\}, X\}$ | Correct |
| <input type="radio"/> | None of them. | |
| <input type="radio"/> | $\{\{1\}, \{2\}, X\}$ | |

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Question # 2 of 10 (Start time: 11:11:07 AM, 15 February 2022)

Total Marks: 1

Which of the following statement is false?

Select the correct option

 Reload Math Equations

<input type="radio"/>	Discrete topology on a countable set X is second countable.	
<input type="radio"/>	Any finite set with any topology is second countable.	
<input checked="" type="radio"/>	Discrete topology on a real line \mathbb{R} is second countable.	Correct
<input type="radio"/>	The set \mathbb{R} with usual topology is second countable.	

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

Question # 3 of 10 (Start time: 11:11:44 AM, 15 February 2022)

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](#)

<input type="radio"/>	(X, τ) be a first countable space.
<input type="radio"/>	B be the countable base.
<input checked="" type="radio"/>	All of them Correct
<input type="radio"/>	(X, τ) be a second countable space.

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Question # 4 of 10 (Start time: 11:12:42 AM, 15 February 2022)

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](#)

<input checked="" type="radio"/>	The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}$.	Correct
<input type="radio"/>	The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{2\}$.	
<input type="radio"/>	None of them.	
<input type="radio"/>	The set $\{\emptyset, \{3\}\}$ is an open cover of the set $\{4\}$.	

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

Question # 1 of 10 (Start time: 11:10:23 AM, 15 February 2022)

Total Marks: 1

Which of the following statement is false?

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	The set \mathbb{R} with usual topology is second countable.	
<input type="radio"/>	Any finite set with any topology is second countable.	
<input type="radio"/>	Discrete topology on a countable set X is second countable.	
<input type="radio"/>	Discrete topology on a real line \mathbb{R} is second countable.	Correct

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



MC210200552: MUKASHFA GHAFAR

Time Left 88 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:59 AM, 15 February 2022

Question # 10 of 10 (Start time: 11:06:04 AM, 15 February 2022)

Total Marks: 1

Let $X = \{1, 2, 3, 4\}$ and $\tau = \{0, \{1, 2\}, \{3, 4\}, X\}$ be a topology on X and $A = \{2, 3\}$ is a dense set, then which of the following is true?

Select the correct option

Reload Math Equations

- (X, τ) may or may not be a separable topology.
- (X, τ) must be a separable topology. Correct
- $\{1, 2\}$ is a closed set.
- None of them.

Click to Save Answer & Move to Next Question





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MC210200552: MUKASHFA GHAFAR

Time Left 88
sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:59 AM, 15 February 2022

Question # 9 of 10 (Start time: 11:05:07 AM, 15 February 2022)

Total Marks: 1

Let (X, τ) be a metrizable then which of the following statement is true

Select the correct option

Reload Math Equations

- (X, τ) is separable.
- (X, τ) has the countable chain collection
- All of them. Correct
- (X, τ) is second countable.

Click to Save Answer & Move to Next Question





Question # 6 of 10 (start time: 11:03:04 AM, 15 February 2022)

Te

Metric topology induced by $d(x, y) = \begin{cases} 0 & \text{if } x = y \\ 1 & \text{if } x \neq y \end{cases}$ is called _ _ _ _ _ _.

Select the correct option

Reload Math E

- None of them
- usual topology
- indiscrete topology
- discrete topology

Correct

Click to Save Answer & Move to Next Q



MC210200552: MUKASHFA GHAFAR

Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:59 AM, 15 February 2022

Question # 7 of 10 (start time: 11:03:45 AM, 15 February 2022)

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 Correct

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MC210200552: MUKASHFA GHAFAR

Time Left 87
sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:59 AM, 15 February 2022

Question # 8 of 10 (Start time: 11:04:29 AM, 15 February 2022)

Total Marks: 1

Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{0, \{3\}, \{4\}, \{3, 4\}, X\}$ be a topology on X , then which of the following is true?

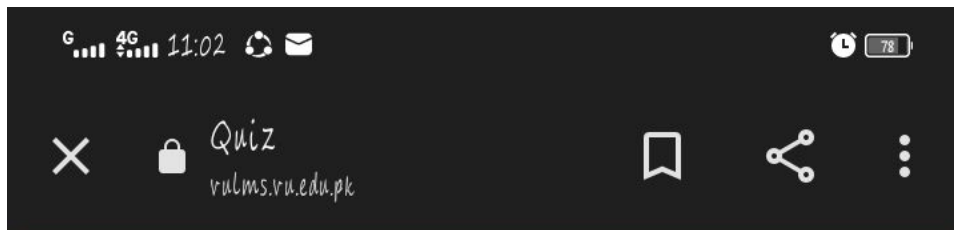
Select the correct option

Reload Math Equations

- All of them. Correct
- The set $\{0, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}$.
- The set $\{0, \{3\}, \{4\}, X\}$ is an open cover of the set $\{4\}$.
- The set $\{0, \{4\}\}$ is an open cover of the set $\{4\}$.

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MC210200552: MUKASHFA GHAFAR

Time Left 47 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:59 AM, 15 February 2022

Question # 5 of 10 (Start time: 11:01:37 AM, 15 February 2022)

Total Marks: 1

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

Reload Math Equations

- | | | |
|----------------------------------|---------------------------------|---------|
| <input checked="" type="radio"/> | $\{\{2\}, \{1, 2\}, X\}$ | Correct |
| <input type="radio"/> | $\{\{1\}, \{1, 2\}, \{2\}, X\}$ | |
| <input type="radio"/> | None of them. | |
| <input type="radio"/> | $\{\{1\}, \{2\}, X\}$ | |

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MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:59 /

Question # 5 of 10 (Start time: 11:01:37 AM, 15 February 2022)

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 $x = 1$ is

Select the correct option



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

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MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:59 AM, 15 F

Question # 4 of 10 (Start time: 11:01:02 AM, 15 February 2022)

Every metric space is first countable.

Select the correct option

- | | | |
|----------------------------------|-------|---------|
| <input checked="" type="radio"/> | True | Correct |
| <input type="radio"/> | False | |

Click to Save Answer & Move to Next



MTH634 - Topology (Quiz No. 3)

Quiz S

Question # 1 of 10 (Start time: 10:59:08 AM, 15 February 2022)

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

Select the correct option

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

Correct

Click to Save



Question # 2 of 10 (Start time: 10:59:46 AM, 15 February 2022)

Every Topological Space is a first countable space.

Select the correct option

- | | | |
|----------------------------------|-------|---------|
| <input checked="" type="radio"/> | True | Correct |
| <input type="radio"/> | False | |

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Question # 3 of 10 (Start time: 11:00:23 AM, 15 February 2022)

If X has more than two points and τ be an indiscrete topology then which of the following statement is true for (X, τ) ?

Select the correct option

- It is metrizable.
- None of them.
- It is Hausdorff.
- It is not metrizable. Correct

Click to Save Answer & Move to Next

Metric topology induced by $d(x, y) = |x - y|$ on \mathbb{R} is called ______.

Select the correct option

Reload Math E

- None of them
- indiscrete topology
- usual topology
- discrete topology

Correct

Click to Save Answer & Move to Next Q

Question # 7 of 10 (Start time: 10:35:00 AM, 15 February 2022)

If (X, τ) be a separable topology then it must have countable dense set.

Select the correct option

- True Correct
- False

Click to Save Answer



Question # 8 of 10 (start time: 10:35:40 AM, 15 February 2022)

Tota

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

Reload Math Eq

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

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Question # 9 of 10 (Start time: 10:36:27 AM, 15 February 2022)

Metric topology induced by $d(x, y) = \begin{cases} 0 & \text{if } x = y \\ 1 & \text{if } x \neq y \end{cases}$ is called _____

Select the correct option

Reload Mat

- indiscrete topology
- usual topology
- None of them
- discrete topology

Correct

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Question # 6 of 10 (Start time: 10:34:20 AM, 15 February 2022)

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

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

Click to Save Answer & Move to Next Question

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:30 AM, 15 Fe

Question # 5 of 10 (Start time: 10:33:45 AM, 15 February 2022)

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 $x = 1$ is_____

Select the correct option

Reload Math

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

Click to Save Answer & Move to Next

Every Topological Space is a first countable space.

Select the correct option

- False
- True **Correct**

Click to Save



MTH634 - Topology (Quiz No. 3)

Quiz Start

Question # 1 of 10 (Start time: 10:30:42 AM, 15 February 2022)

Let $X = \{1, 2, 3, 4\}$ and $\tau = \{\emptyset, \{1, 2\}, \{3, 4\}, X\}$ be a topology on X and $A = \{2, 3\}$ is a dense set, then w

Select the correct option

- | | | |
|----------------------------------|---|---------|
| <input checked="" type="radio"/> | (X, τ) must be a separable topology. | Correct |
| <input type="radio"/> | None of them. | |
| <input type="radio"/> | (X, τ) may or may not be a separable topology. | |
| <input type="radio"/> | $\{1, 2\}$ is a closed set. | |

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MC210200573: SAIMA

MTH634 - Topology (Quiz No. 3)

Question # 9 of 10 (Start time: 10:25:54 AM, 15 February 2022)

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

- The set $\{\emptyset, \{3\}\}$ is an open cover of the set $\{4\}$.
- The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{2\}$.
- The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}$.
- None of them.

Correct

Type here to search

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Question # 3 of 10 (Start time: 10:32:16 AM, 15 February 2022)

Every metric space is first countable.

Select the correct option

<input checked="" type="radio"/>	True
<input type="radio"/>	False

Correct
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MC210200573: SAJMA

MTH634 – Topology (Quiz No. 3)

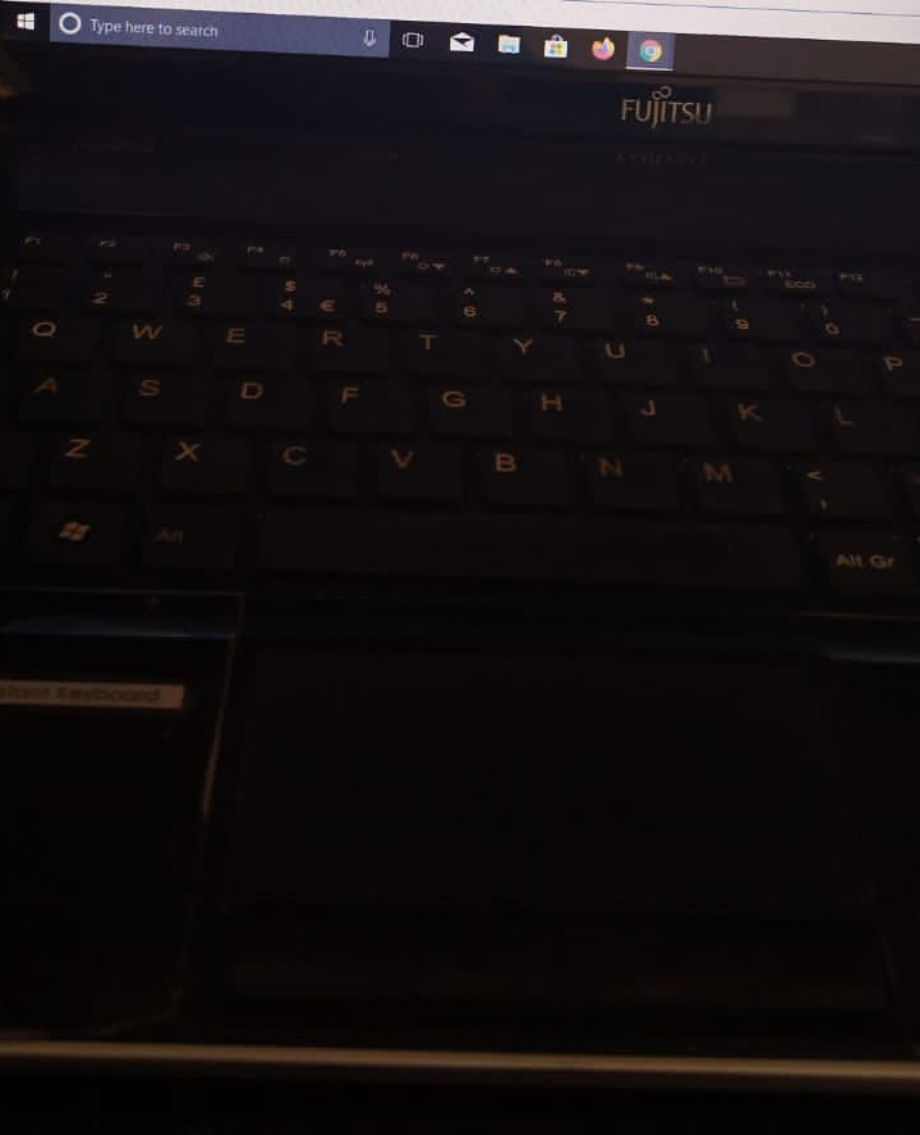
Question # 8 of 10 (Start time: 10:25:17 AM, 15 February 2022)

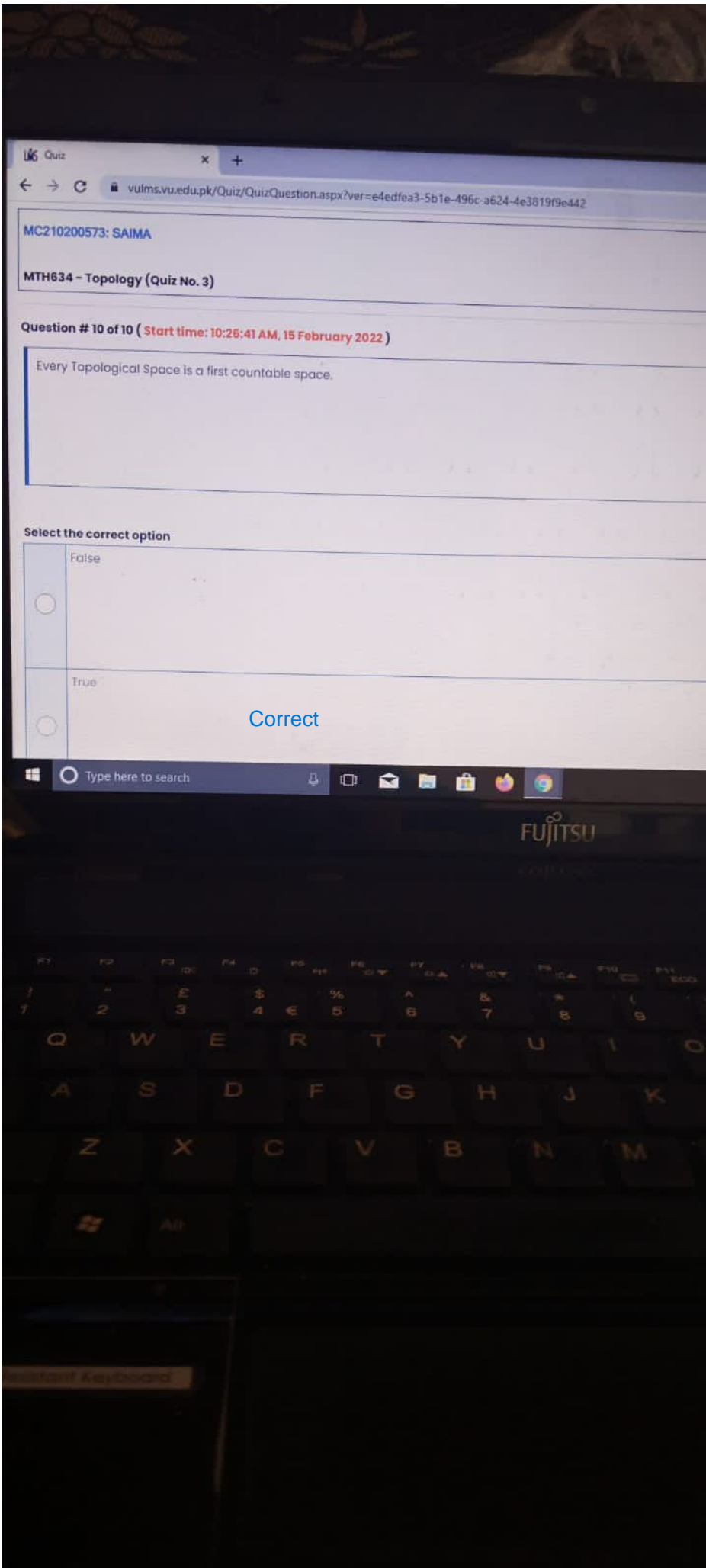
Which of the following statement is false?

Select the correct option

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

Correct





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MC210200573: SAIMA

MTH634 - Topology (Quiz No. 3)

Question # 10 of 10 (Start time: 10:26:41 AM, 15 February 2022)

Every Topological Space is a first countable space.

Select the correct option

<input type="radio"/>	False
<input checked="" type="radio"/>	True

Correct

Type here to search

FUJITSU

Q W E R T Y U I O
A S D F G H J K
Z X C V B N M

MC210200573: SAIMA

MTH634 - Topology (Quiz No. 3)

Question # 7 of 10 (Start time: 10:24:47 AM, 15 February 2022)

Which of the following statement is true?

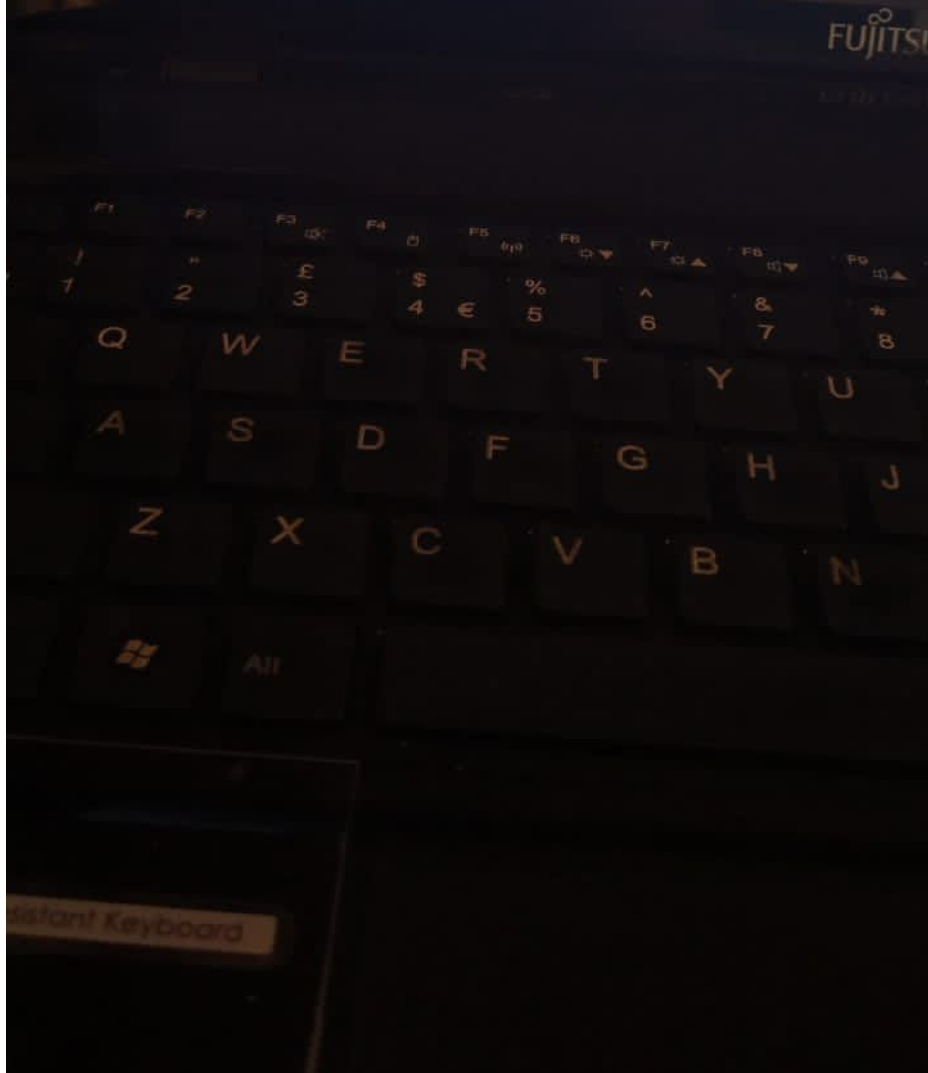
Select the correct option

All spaces are metrizable.

All spaces are not metrizable.

Correct

Type here to search



MC210200573: SAIMA

MTH634 - Topology (Quiz No. 3)

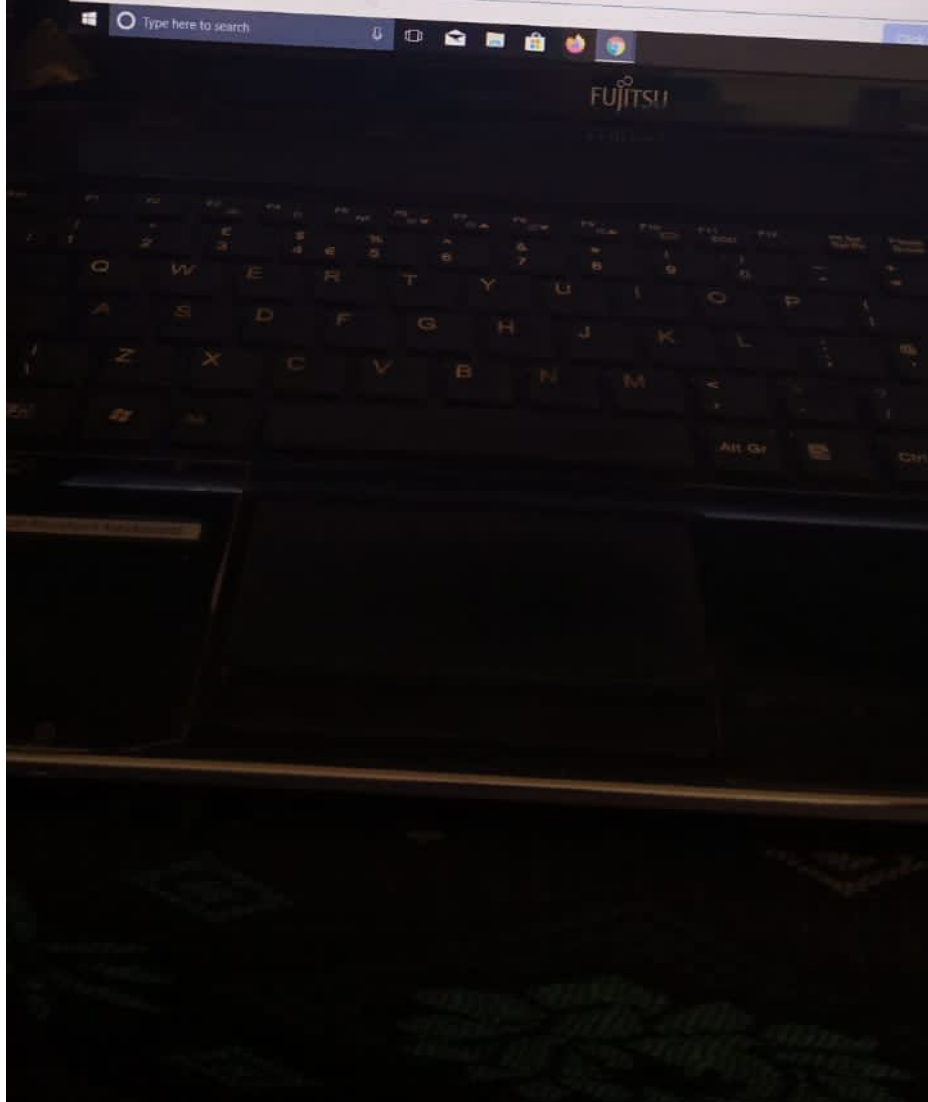
Question # 6 of 10 (Start time: 10:24:20 AM, 15 February 2022)

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

<input checked="" type="radio"/>	$\{X\}$
<input type="radio"/>	$\{\{2\}, \{1, 2\}, X\}$
<input type="radio"/>	$\{\{1\}, \{2\}, X\}$
<input type="radio"/>	None of them

Correct



MC210200573: SAIMA

MTH634 - Topology (Quiz No. 3)

Question # 5 of 10 (Start time: 10:23:32 AM, 15 February 2022)

If $s \setminus \left([X, \tau] \right)$ be a separable topology then it must have countable dense set.

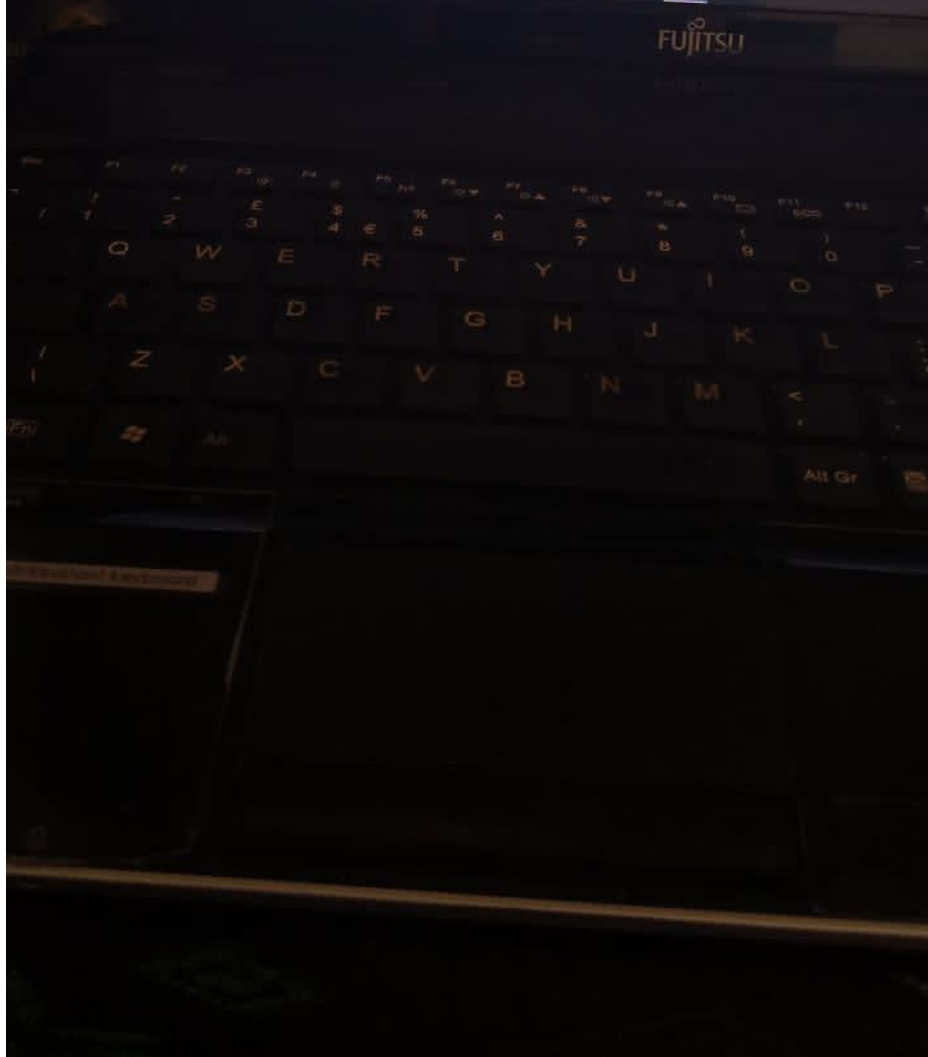
Select the correct option

<input checked="" type="radio"/>	True
<input type="radio"/>	False

Correct

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MC210200573: SAIMA

MTH34 - Topology (Quiz No. 3) Quiz Start

Question # 2 of 10 (Start time: 10:20:58 AM, 15 February 2022)

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

Select the correct option

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

Correct

Type here to search

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Q W E R T Y U I O P
A S D F G H J K L
Z X C V B N M

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MTH634 - Topology (Quiz No. 3)

Question # 3 of 10 (Start time: 10:21:47 AM, 15 February 2022)

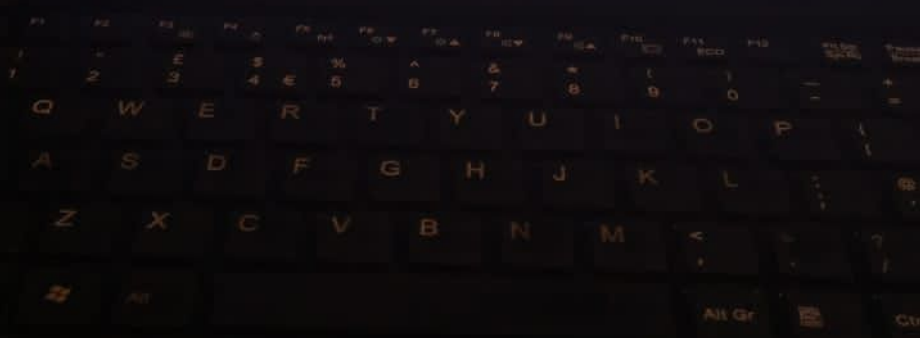
Let $X = \{a, b, c\}$ and $\tau = \{\emptyset, \{a\}, \{a, b\}, X\}$ be a topology on X , then which of the following is NOT true?

Select the correct option

<input checked="" type="radio"/>	(X, τ) be a second countable space.	Correct
<input type="radio"/>	(X, τ) be a Topological space.	
<input type="radio"/>	All of them.	
<input type="radio"/>	(X, τ) be a first countable space.	

Type here to search

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MTH634 - Topology (Quiz No. 3)

Question # 4 of 10 (Start time: 10:22:54 AM, 15 February 2022)

Which of the following statement is false?

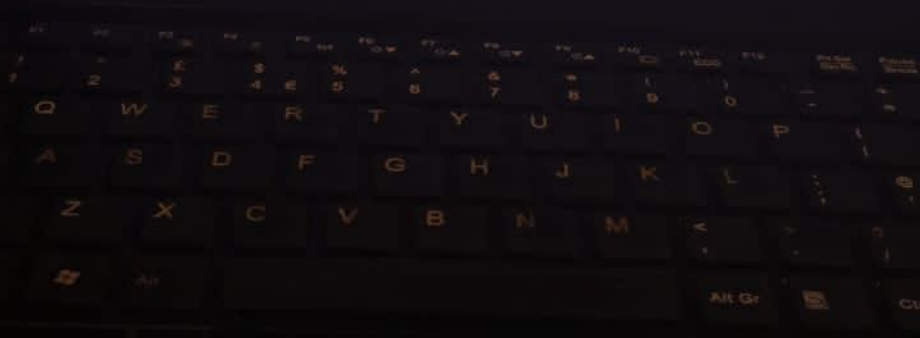
Select the correct option

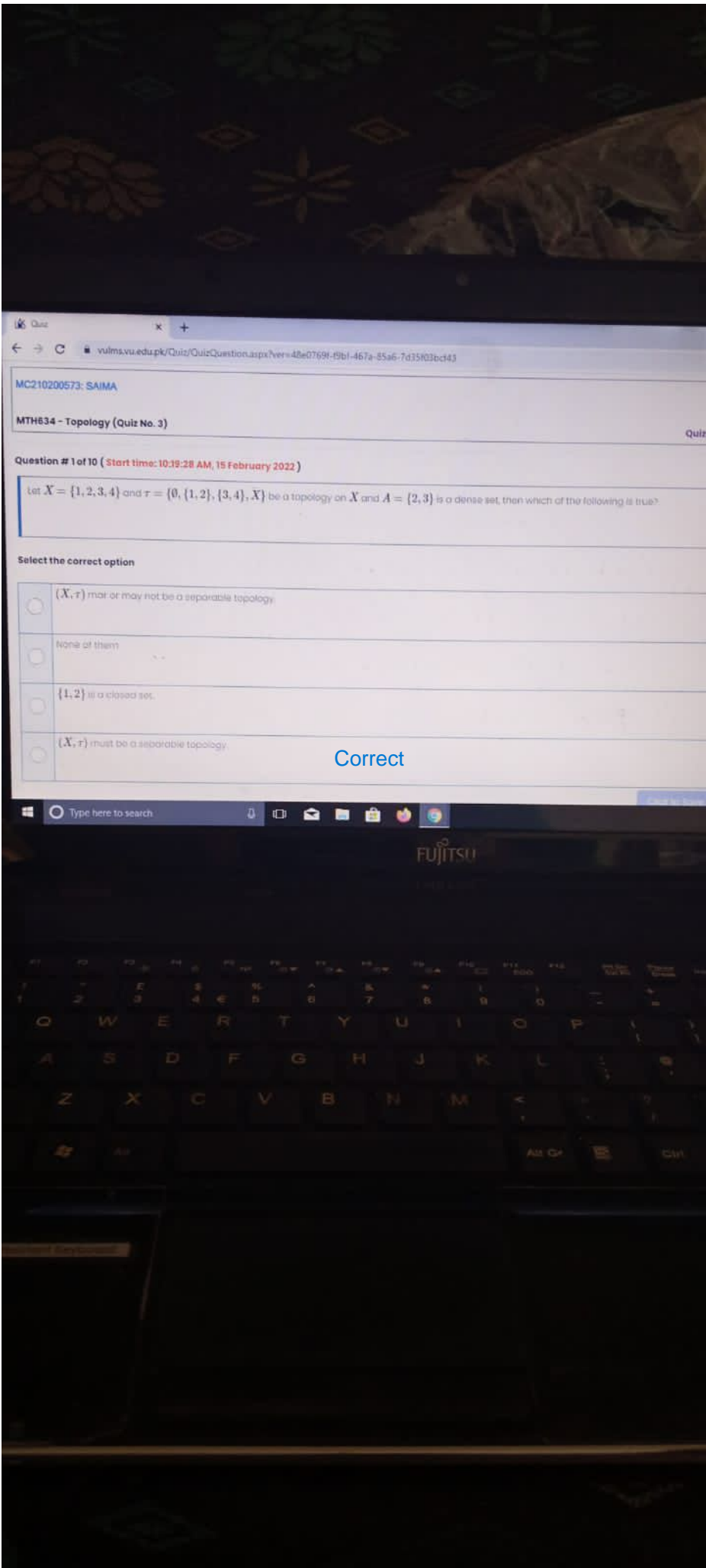
<input type="radio"/>	The set \mathbb{R} with usual topology is second countable.
<input type="radio"/>	Discrete topology on a real line \mathbb{R} is second countable
<input type="radio"/>	Any finite set with any topology is second countable.
<input type="radio"/>	Discrete topology on a countable set X is second countable

Correct

Type here to search

FUJITSU





Quiz

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MTH634 - Topology (Quiz No. 3) Quiz

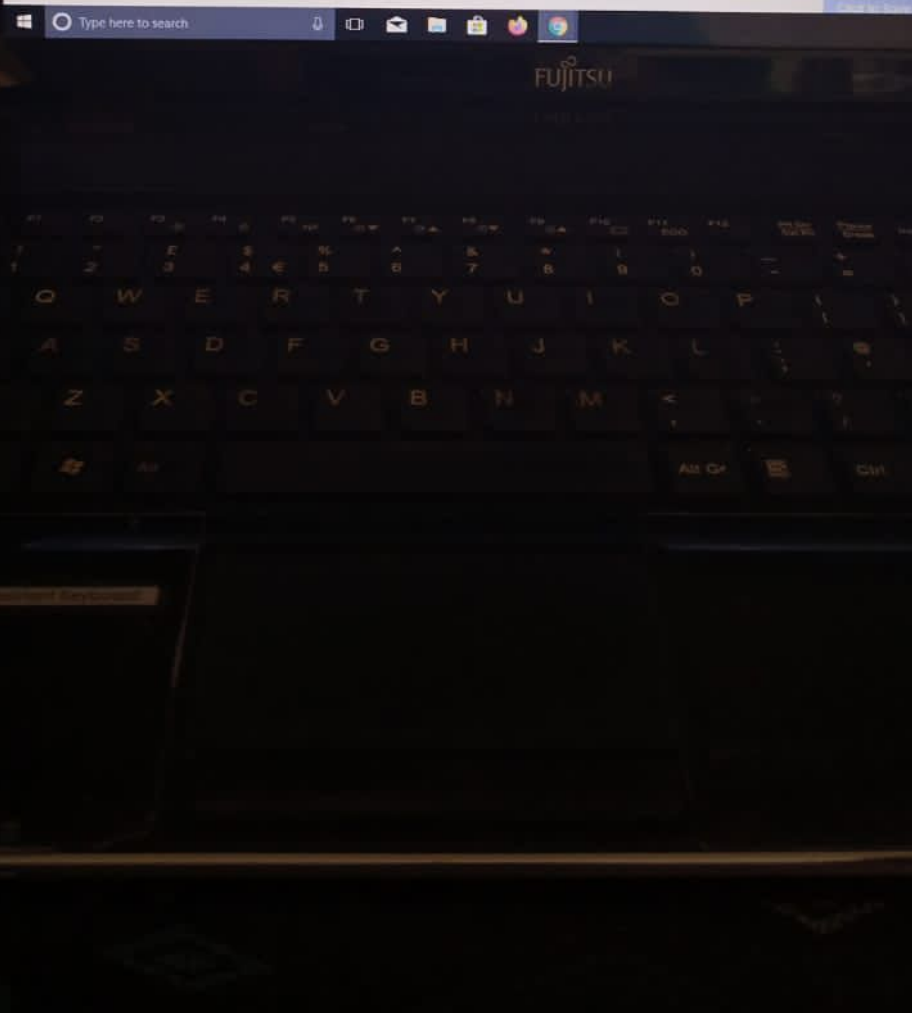
Question # 1 of 10 (Start time: 10:19:28 AM, 15 February 2022)

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

Select the correct option

- (X, τ) may or may not be a separable topology.
- None of them
- $\{1, 2\}$ is a closed set.
- (X, τ) must be a separable topology.

Correct





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10:15 AM

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BC180401082: MUHAMMAD AJMAL

Time Left 86 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:03 AM, 15 February 2022

Question # 10 of 10 (Start time: 10:15:31 AM, 15 February 2022)

Total Marks: 1

Which of the following statement is false?

Select the correct option

Reload Math Equations

- | | | |
|-----------------------|---|---------|
| <input type="radio"/> | Any finite set with any topology is second countable. | |
| <input type="radio"/> | Discrete topology on a real line \mathbb{R} is second countable | Correct |
| <input type="radio"/> | The set \mathbb{R} with usual topology is second countable. | |
| <input type="radio"/> | Discrete topology on a countable set X is second countable. | |

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29



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Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:03 AM, 15 February 2022

Question # 9 of 10 (Start time: 10:13:36 AM, 15 February 2022)

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

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

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MTH634 - Topology (Quiz No. 3)

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Question # 6 of 10 (start time: 10:09:12 AM, 15 February 2022) [VUAnswer.com](#)

Total Marks: 1

Which of the following statement is true?

Select the correct option

All spaces are metrizable.

All spaces are not metrizable.

Correct

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10:10

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29



BC180401082: MUHAMMAD AJMAL

Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:03 AM, 15 February 2022

Question # 7 of 10 (Start time: 10:10:35 AM, 15 February 2022)

Total Marks: 1

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

Select the correct option

Reload Math Equations

- | | | |
|----------------------------------|---|---------|
| <input checked="" type="radio"/> | (X, τ) must be a separable topology. | Correct |
| <input type="radio"/> | $\{1, 2\}$ is a closed set. | |
| <input type="radio"/> | None of them. | |
| <input type="radio"/> | (X, τ) may or may not be a separable topology. | |

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10:12

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Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:03 AM, 15 February 2022

Question # 8 of 10 (Start time: 10:12:25 AM, 15 February 2022)

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

- | | |
|----------------------------------|---|
| <input checked="" type="radio"/> | All of them. Correct |
| <input type="radio"/> | Every element of X has countable local base. |
| <input type="radio"/> | (X, τ) be a first countable space. |
| <input type="radio"/> | (X, τ) be a topological space. |

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29



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Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:03 AM, 15 February 2022

Question # 3 of 10 (Start time: 10:06:17 AM, 15 February 2022)

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

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

Click to Save Answer & Move to Next Question



10:07

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29



BC180401082: MUHAMMAD AJMAL

Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:03 AM, 15 February 2022

Question # 4 of 10 (Start time: 10:07:13 AM, 15 February 2022)

Total Marks: 1

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 $x = 1$ is.....

Select the correct option

Reload Math Equations

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

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Time Left 86
sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:03 AM, 15 February 2022

Question # 5 of 10 (Start time: 10:08:11 AM, 15 February 2022)

Total Marks: 1

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

Reload Math Equations

- | | | |
|----------------------------------|-----------------------------------|---------|
| <input type="radio"/> | None of them. | |
| <input checked="" type="radio"/> | $\{\{2\}, \{1, 2\}, X\}$. | Correct |
| <input type="radio"/> | $\{\{1\}, \{1, 2\}, \{2\}, X\}$. | |
| <input type="radio"/> | $\{\{1\}, \{2\}, X\}$. | |

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29



BC180401082: MUHAMMAD AJMAL

Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:03 AM, 15 February 2022

Question # 2 of 10 (Start time: 10:05:19 AM, 15 February 2022)

Total Marks: 1

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

Reload Math Equations

- | | |
|----------------------------------|---|
| <input type="radio"/> | None of them. |
| <input type="radio"/> | $\{\{2\}, \{1, 2\}, X\}$. |
| <input type="radio"/> | $\{\{1\}, \{2\}, X\}$. |
| <input checked="" type="radio"/> | $\{X\}$. Correct |

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2



MC200200090: MAHNOOR REHMAN

Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 09:56 AM, 15 February 2022

Question # 10 of 10 (Start time: 10:04:21 AM, 15 February 2022)

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

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

Correct

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29



BC180401082: MUHAMMAD AJMAL

Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:03 AM, 15 February 2022

Question # 1 of 10 (start time: 10:04:01 AM, 15 February 2022)

Total Marks: 1

Let (X, τ) be a metrizable then which of the following statement is true

Select the correct option

Reload Math Equations

- (X, τ) is second countable.
- (X, τ) is separable.
- All of them Correct
- (X, τ) has the countable chain collection

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10:02



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2



MC200200090: MAHNOOR REHMAN

Time Left 88 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 09:56 AM, 15 February 2022

Question # 7 of 10 (Start time: 10:02:18 AM, 15 February 2022)

Total Marks: 1

Metric topology induced by $d(x, y) = |x - y|$ on \mathbb{R} is called _____.

Select the correct option

Reload Math Equations

- discrete topology
- indiscrete topology
- None of them
- usual topology

Correct

Click to Save Answer & Move to Next Question



10:03

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2



MC200200090: MAHNOOR REHMAN

Time Left 85 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 09:56 AM, 15 February 2022

Question # 8 of 10 (start time: 10:03:00 AM, 15 February 2022)

Total Marks: 1

Let $X = \{1, 2, 3, 4\}$ and $\tau = \{0, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on X , then which of the following is true ?

Select the correct option

Reload Math Equations

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

Correct

Click to Save Answer & Move to Next Question



10:03



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2



MC200200090: MAHNOOR REHMAN

Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 09:56 AM, 15 February 2022

Question # 9 of 10 (start time: 10:03:48 AM, 15 February 2022)

Total Marks: 1

Every Topological Space is a first countable space.

Select the correct option

<input checked="" type="radio"/>	True	Correct
<input type="radio"/>	False	

Click to Save Answer & Move to Next Question



10:01



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2



MC200200090: MAHNOOR REHMAN

Time Left 86 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 09:56 AM, 15 February 2022

Question # 6 of 10 (start time: 10:01:31 AM, 15 February 2022)

Total Marks: 1

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

Select the correct option

<input checked="" type="radio"/>	True	Correct
<input type="radio"/>	False	

Click to Save Answer & Move to Next Question



10:00



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2



MC200200090: MAHNOOR REHMAN

Time Left 86 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 09:56 AM, 15 February 2022

Question # 5 of 10 (start time: 10:00:42 AM, 15 February 2022)

Total Marks: 1

Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{0, \{3\}, \{4\}, \{3, 4\}, X\}$ be a topology on X , then which of the following is true?

Select the correct option

Reload Math Equations

- The set $\{0, \{3\}, \{4\}, X\}$ is an open cover of the set $\{4\}$.
- The set $\{0, \{4\}\}$ is an open cover of the set $\{4\}$.
- All of them. Correct
- The set $\{0, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}$.

Click to Save Answer & Move to Next Question



10:00

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MC200200090: MAHNOOR REHMAN

Time Left 81 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 09:56 AM, 15 February 2022

Question # 4 of 10 (start time: 09:59:56 AM, 15 February 2022)

Total Marks: 1

Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{0, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on X , then the local base (B_x) of the point $x = 1$ is_____

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Select the correct option VUAnswer.com

Reload Math Equations

- | | |
|----------------------------------|---|
| <input type="radio"/> | $\{\{1\}, \{2\}, X\}$ |
| <input checked="" type="radio"/> | $\{\{1\}, \{1, 2\}, X\}$ Correct |
| <input type="radio"/> | $\{\{1\}, \{2\}, \{1, 2\}, X\}$ |
| <input type="radio"/> | None of them |

Click to Save Answer & Move to Next Question



9:56



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2



MC200200090: MAHNOOR REHMAN

Time Left 86 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 09:56 AM, 15 February 2022

Question #1 of 10 (start time: 09:56:15 AM, 15 February 2022)

Total Marks: 1

Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{0, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on X , then the local base (B_x) of the point $x = 2$ is_____

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question



9:58



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2



MC200200090: MAHNOOR REHMAN

Time Left 83 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 09:56 AM, 15 February 2022

Question # 2 of 10 (start time: 09:58:14 AM, 15 February 2022)

Total Marks: 1

Metric topology induced by $d(x, y) = \begin{cases} 0 & \text{if } x = y \\ 1 & \text{if } x \neq y \end{cases}$ is called _._._._.

Select the correct option

Reload Math Equations

- indiscrete topology
- None of them
- discrete topology Correct
- usual topology

Click to Save Answer & Move to Next Question



9:59

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2



MC200200090: MAHNOOR REHMAN

Time Left 84 sec(s)

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 09:56 AM, 15 February 2022

Question # 3 of 10 (start time: 09:58:58 AM, 15 February 2022)

Total Marks: 1

Which of the following statement is false?

Select the correct option

Reload Math Equations

- | | | |
|----------------------------------|---|---------|
| <input checked="" type="radio"/> | Discrete topology on a real line \mathbb{R} is second countable | Correct |
| <input type="radio"/> | Any finite set with any topology is second countable. | |
| <input type="radio"/> | The set \mathbb{R} with usual topology is second countable. | |
| <input type="radio"/> | Discrete topology on a countable set X is second countable. | |

Click to Save Answer & Move to Next Question





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MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:35 AM, 15 Feb

Question # 1 of 10 (Start time: 10:35:20 AM, 15 February 2022)

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

Reload Mat

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

Click to Save Answer & Move to



MTH634 - Topology (Quiz No. 3)

Quiz Start T

Question # 3 of 10 (Start time: 10:37:42 AM, 15 February 2022)

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

Select the correct option

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

Correct

Click to R

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:36:32 AM, 15 February 2022

Question # 2 of 10 (Start time: 10:36:32 AM, 15 February 2022)

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

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

6:43 PM



Question # 6 of 10 (Start time: 10:30:18 AM, 14 February 2022)

Total Mark

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



All of them

Correct



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



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

Saving

MTH634 - Topology (Quiz No. 3)

Quiz Start Time: 10:35

Question # 5 of 10 (Start time: 10:40:39 AM, 15 February 2022)

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

Select the correct option

- (X, τ) must be a separable topology. Correct
 - None of them.
 - (X, τ) may or may not be a separable topology.
 - $\{1, 2\}$ is a closed set.
- Click to Save Answer 5

6:43 PM



Question # 8 of 10 (Start time: 10:30:36 AM, 14 February 2022)

Total Mark

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

Select the correct option

Reload Math Equations



(X, τ) be a Topological space.



(X, τ) be a second countable space.

Correct



All of them.



(X, τ) be a first countable space

Click to Save Answer & Move to Next Question

6:42 PM



MTH634 - Topology (Quiz No. 3)

Quiz Start time: 10:28:21 AM, 14 February 2022

Question # 1 of 10 (Start time: 10:28:21 AM, 14 February 2022)

Every metric space is first countable.

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Select the correct option

<input checked="" type="radio"/>	True	Correct
<input type="radio"/>	False	

1

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Question # 4 of 10 (Start time: 10:30:00 AM, 14 February 2022)

Total Mark

Let (X, τ) be a metrizable then which of the following statement is true

Select the correct option

 Reload Math Equations

- (X, τ) is separable.
- (X, τ) is second countable.
- (X, τ) has the countable chain collection
- All of them Correct

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6:43 PM



Question # 9 of 10 (Start time: 10:30:42 AM, 14 February 2022)

Total Mark


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

Click to Save Answer & Move to Next Question

6:44 PM 




Question # 9 of 10 (Start time: 10:30:42 AM, 14 February 2022)

Total Mark

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

- | | |
|----------------------------------|---|
| <input checked="" type="radio"/> | (X, τ) be a first countable space. |
| <input type="radio"/> | All of them. Correct |
| <input type="radio"/> | Every element of X has countable local base. |
| <input type="radio"/> | (X, τ) be a topological space. |

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Question # 5 of 10 (Start time: 10:30:10 AM, 14 February 2022)

Total Mark

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.....

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Select the correct option

Reload Math Equations

- | | | |
|----------------------------------|--------------------------|---------|
| <input checked="" type="radio"/> | $\{X\}$ | Correct |
| <input type="radio"/> | $\{\{2\}, \{1, 2\}, X\}$ | |
| <input type="radio"/> | $\{\{1\}, \{2\}, X\}$ | |
| <input type="radio"/> | None of them. | |

Saving

Question # 2 of 10 (Start time: 10:28:57 AM, 14 February 2022)

Metric topology induced by $d(x, y) = \begin{cases} 0 & \text{if } x = y \\ 1 & \text{if } x \neq y \end{cases}$ is called ______.

Select the correct option



- None of them
- usual topology
- discrete topology Correct
- indiscrete topology

1

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Question # 3 of 10 (Start time: 10:29:20 AM, 14 February 2022)

Total Mark

If X has more than two points and τ be an indiscrete topology then which of the following statements is true about (X, τ) ?

Select the correct option

- It is not metrizable.
- It is Hausdorff.
- None of them.
- It is metrizable.

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