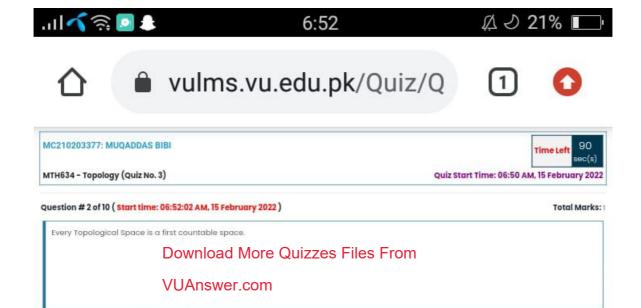
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lu.pk/Quiz/Q 1
Time Left 90 sec(s)
Quiz Start Time: 06:50 AM, 15 February 202
Total Marks
Reload Math Equations
Correct

Click to Save Answer & Move to Next Question



#### Select the correct option

0	False	
0	True	
		Click to Save Answer & Move to Next Question

MC210203377: MUQADDAS BIBI MTH634 - Topology (Quiz No. 3)	k/Quiz/Q 1 C
Question # 5 of 10 ( Start time: 06:54:20 AM, 15 February 2022 )	Total Marks:
Let $X = \{1, 2, 3, 4, 5, 6\}$ and $ au = \{0, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on .	$X_r$ then the local base ( $B_x$ ) of the point $x=3,4,5$ is
Select the correct option	Reload Math Equations
$\bigcirc \{\{2\},\{1,2\},X\}.$	
$\bigcirc \{\{1\},\{2\},X\}.$	
None of them.	
O {x} Correct	
	Click to Save Answer & Move to Next Question



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MC210203377: MUQADDAS BIB	Ĩ.	Time Left 90
MTH634 - Topology (Quiz No. 3)		Quiz Start Time: 06:50 AM, 15 February 2022
Question # 4 of 10 ( <mark>start time: 06</mark>	i:53:37 AM, 15 February 2022 )	Total Marks:
Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{0, 1, 2, 3, 4, 5, 6\}$	ð, {3}, {4}, {3, 4}, $X$ be a topology on $X$ , then which of th	e following is true?
	Download More Quizze	s Files From
Select the correct option	VUAnswer.com	🕢 Reload Math Equations
The set {Ø, {3}, {4}, X} is a	n open cover of the set {4}.	
The set {Ø, {3}, {4}} is an	apen sub-cover of {Ø, {3}, {4}, X}.	
The set{0, {3}, {4}} is an a	open cover of the set {4}.	
All of them	Correct	
		Click to Save Answer & Move to Next Question



6:52

1

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MC210203377: MUQADDAS BIBI 89 Time Left 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 ? Download More Quizzes Files From Reload Math Equations Select the correct option VUAnswer.com  $(X, \tau)$  be a topological space. Every element of X has countable local base All of them. Correct  $(X, \tau)$  be a first countable space. C

Click to Save Answer & Move to Next Qu

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🗘 🌲 VI	ılms.vu.edu.pk/Quiz/	/Q 1 O
MC210203377: MUQADDAS BIBI		Time Left 89
MTH634 - Topology (Quiz No. 3)		Quiz Start Time: 06:50 AM, 15 February 202
Question # 7 of 10 ( <mark>Start time: 06:56:4</mark>	7 AM, 15 February 2022 )	Total Marks
Select the correct option	Download More Quizzes F	
Discrete topology on a counta	ble set X is second countable.	
Any finite set with any topology	r is second countable.	
Discrete topology on a real line	R is second countable	
0	The set R with usual topology is second countable	2.

Click to Save Answer & Move to Next Question



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## 7:01

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MC210203377: MUQADDA	S BIBI	Time Left 89
MTH634 - Topology (Quiz N	o. 3)	Quiz Start Time: 06:50 AM, 15 February 2022
Question # 10 of 10 ( Start ti	ne: 07:00:57 AM, 15 February 2022 )	Total Marks:
Let $X = \{1, 2, 3, 4\}$ and $\tau = \{$	Ø, {1}, {2}, {1, 2}, $X$ be a topology an $X$ then which af the fo	ollowing is NOT true ?
	Download More Quizzes Files	From
Select the correct option	VUAnswer.com	

Select	the correct option VOAIISWELCOIII	💿 Reload Math Equations
0	The local base of the element 4 is Ø.	
0	Every element of X has uncountable local base.	
0	(X, T) be a first countable space.	
0	(X, r) be a topological space.	
		Click to Save Answer & Move to Next Question



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## 6:55

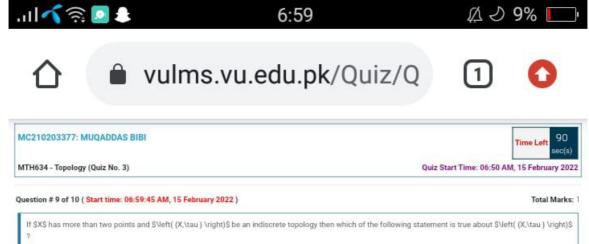
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MC210	0203377: MUQADDAS BIBI	Time Left 90 sec(s)
мтн63	34 - Topology (Quiz No. 3) Quiz St	art Time: 06:50 AM, 15 February 2022
Questic	on # 6 of 10 ( start time: 06:55:36 AM, 15 February 2022 )	Total Marks: 1
	\$x = \left\{ {1,2,3,4,5,6} \right\}\$ and \$\tau = \left\{ {\emptyset ,\{ 3\} ,\{ 4\} ,\{ 3,4\} ,x} \right\}\$ be a t wing is true?	opology on \$X\$, then which of the
Select t	the correct option	👰 Reload Math Equations
0	The set \$\left\{ {\emptyset, \{ 3\}, \{ 4\} } \right\}\$ is an open cover of the set \$\left\{ 4 \right\}\$.	
0	The set \$\left\{ {\emptyset, \{ 4\} } \right\}\$ is an open cover of the set \$\left\{ 4 \right\}\$.	
0	All of them.	
-	$\label{eq:thesets} The set \\ f(x), (x), (x), (x), (x), (x), (x), (x), $	

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#### Select the correct option

0	It is not metrizable.	
0	None of them.	
0	It is metrizable.	
0	It is Haussdorff.	
1)		



#### 6:58

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Time Left

-1-

Total Marks: 1

#### MC210203377: MUQADDAS BIBI 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 )

following is true?

#### Select the correct option

Select	the correct option	🕝 Reload Math Equations
0	The set $\left( \left( \left( 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, $	
0	Nane of them.	
0	The set \$\left\{ {\emptyset, \{ 3\}, \{ 4\} } \right\}\$ is an open cover of the set \$\left\{ 4 \right\}\$.	Correct
0	The set \$\left\{ {\emptyset, \{ 3\} } \right\}\$ is an open cover of the set \$\left\{ 4 \right\}\$.	
	click to Same 4	entres 5. Merce to Merce Circles



# 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.

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

<sup>≎46</sup> 1  <sup>84</sup>
/Quiz/Q 🗊 🚺
Time Left 89 sec(s) Quiz start Time: 12:26 PM, 15 February 20
Total Mark
dense set.

# False Correct True Click to Save Answer & Move to Next Question

Select the correct option

 $\equiv$   $\Box$   $\triangleleft$ 

	<sup>≎</sup> 4 <sup>6</sup> 1  <sup>84</sup> '
🖒 🔒 vulms.vu.edu.pk/Qu	uiz/Q 🗊 🚺
MC210200645: MUHAMMAD SHEHZAD	Time Left 89
MTH634 - Topology (Quiz No. 3)	Quiz Start Time: 12:26 PM, 15 February 20
Question # 10 of 10 ( Start time: 12:31:15 PM, 15 February 2022 )	Total Mark
Select the correct option           B be the countable base.	👰 Reload Math Equations
	Peload Math Equations
B be the countable base.	🧭 Reload Math Equations
$B \text{ be the countable base.}$ $(X, \tau) \text{ be a first countable space.}$	Reload Math Equations
B  be the countable base.	Reload Math Equations

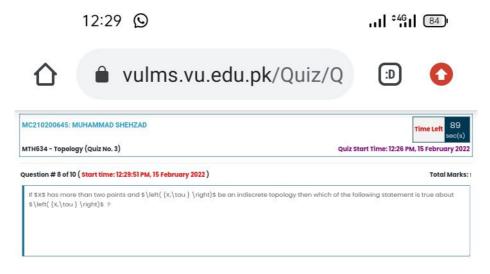
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MC210200645: MUHAMMAD SHEHZAD	Time Left
MTH634 - Topology (Quiz No. 3)	Quiz Start Time: 12:26 PM, 15 Febru
Question # 9 of 10 ( start time: 12:30:40 PM, 15 February 2022 )	Tota
Select the correct option	🕝 Reload Math Equ
Select the correct option Every element of X has uncountable local base.	🧭 Reload Math Equ
Every element of $X$ has uncountable local base.	🕢 Reload Math Equ
$(X, \tau)$ be a topological space.	
Every element of X has uncountable local base. $(X, \tau) \text{ be a tapological space.}$ The local base of the element 4 is $\emptyset$	

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#### Select the correct option

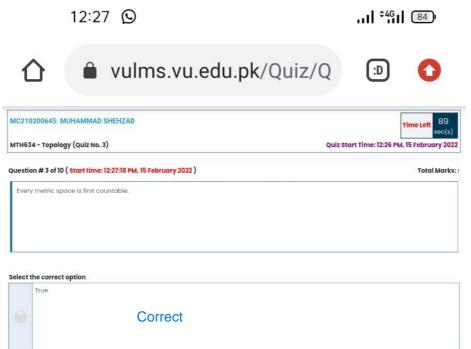
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 $\triangleleft$ 

	It is not metrizable.
•	It is metrizable.
	It is Haussdorff.
0	None of them.
	Click to Strue Answer & Move to Next Outestion

MTH634(2) Sms.vu.e	edu.pk/Quiz/Q 🕒 🚺
Pakistan'	
MC210200645: MUHAMMAD SHEHZAD	Time Left 87 sec(s)
MTH634 - Topology (Quiz No. 3)	Quiz Start Time: 12:26 PM, 15 February 2022
Let $X = \{1, 2, 3, 4, 5, 6\}$ and $ au = \{0, \{1\}, \{2\}, \{1, 2\}, X\}$ b	Total Marks: 1 a a topology on $X$ , then the local base ( $B_x$ ) of the point $x=2$ is
Let $X = \{1, 2, 3, 4, 5, 6\}$ and $ au = \{0, \{1\}, \{2\}, \{1, 2\}, X\}$ is select the correct option	Total Marks:
Let $X=\{1,2,3,4,5,6\}$ and $\tau=\{\emptyset,\{1\},\{2\},\{1,2\},X\}$ b	Total Marks: Is a topology on $X$ , then the local base ( $B_x$ ) of the point $x=2$ is
Select the correct option	Total Marks: a a topology on $X$ , then the local base ( $B_x$ ) of the point $x=2$ is
Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{0, \{1\}, \{2\}, \{1, 2\}, X\}$ b Select the correct option $\{\{1\}, \{1, 2\}, \{2\}, X\}.$	Total Marks: a a topology on $X$ , then the local base ( $B_x$ ) of the point $x=2$ is

## $\equiv$ $\Box$ $\triangleleft$



False
Click to Save Answer & Move to Next Question

12:27	<sup>≎</sup> 4 <mark>6</mark> 1  84)
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MC210200645: MUHAMMAD SHEHZAD	Time Left g
MTH634 - Topology (Quiz No. 3)	Quiz Start Time: 12:26 PM, 15 February
Question # 4 of 10 ( Start time: 12:27:47 PM, 15 February 2022 )	Total M
elect the correct option	
(X,  au) be a second countable space.	🧭 Reload Math Equati
$(X, \tau) \text{ be a second countable space.}$ $(X, \tau) \text{ be a Topological space.}$	Reload Math Equat
(X, T) be a Tapplopical space.	Reload Math Equat
$(X, \tau) \text{ be a topological space.}$	Reload Math Equati

MC210200645: MUHAMMAD SHEHZAD	Time Left 88
MTH634 - Topology (Quiz No. 3)	sec(s Quiz Start Time: 12:26 PM, 15 February 20
Question # 6 of 10 ( start time: 12:28:48 PM, 15 February 2022 )	Total Mark
Let $\mathbf{X} = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{0, \{1\}, \{2\}, \{1, 4\}, \mathbf{X}\}$ be a	a topology on $X,$ then the local base ( $B_x$ ) of the point $x=1$ is
	8 8 8 8 9
Select the correct option $\{\{1\},\{2\},X\}$	8 9 8 29 9
Select the correct option  {{1},{2},X}.  None of them	Reload Math Equations

	12:26	I <sup>≎4</sup> 611 (85)
仚	🗎 vulms.vu.edu.p	ok/Quiz/Q 🗈 🚺
MC210200645: M	MUHAMMAD SHEHZAD	Time Left 88 sec(s)
MTH634 - Topolo	ogy (Quiz No. 3)	Quiz Start Time: 12:26 PM, 15 February 2022
uestion # 2 of 10	) ( start time: 12:26:52 PM, 15 February 2022 )	Total Marks:
elect the correc	t option	🧑 Reload Math Equations
discrete	correct	
indiscrete	a topology	
None of t	hem	
usual top	xology	
		Click to Save Answer & Move to Next Question

## $\equiv$ $\Box$ $\triangleleft$

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٢	vulms.vu.edu.pk/Quiz/Q	1)
MC210	00645: MUHAMMAD SHEHZAD	Time Left
MTH634	- Topology (Quiz No. 3) Quiz S	tart Time: 12:26 PM, 15 February
Questio	# 1 of 10 ( start time: 12:26:13 PM, 15 February 2022 )	Total M
Select th	e correct option	🧔 Reload Math Equat
	The set ${\mathbb R}$ with usual topology is second countable.	
	Discrete topology on a real line R is second countable Correct	
	Discrete topology on a countable set X is second countable.	
	any finite set with any topology is second countable.	
	Click to Save	Answer & Move to Next Questi

MTH634 - Topology	(Quiz No. 3)
MILLION4 - LODOIODA	(Suit 160. 5)

Total Marks: 1

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

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  $\tau$ , then which of the following is true  $\gamma$ 

#### Select the correct option

		e Heloda Math Equations
0	(X, au) be a second countable space.	
0	All of them Correct	
0	(X, au) be a first countable space.	
0	B be the countable base.	
	1	Click to Save Answer & Move to Next Question

STREAM 10	2002 Con 527
MTH634 - Topology	(Quiz No. 3)

Total Marks: 1

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

elect	the correct option	
Select	the correct option	Reload Math Equations
0	The set $\{0, \{3\}\}$ is an open cover of the set $\{4\}.$	1
0	The set $\{0, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}$ Correct	t
0	None of them.	
0	The set $\{0, \{3\}, \{4\}\}$ is an open cover of the set $\{2\}$ .	

MTH634 - Topology	(Quiz No. 3)
MIN034 - TODOIDUY	Quiz No. 3)

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

Total Marks: 1

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

Select	the correct option	👩 Reload Math Equations
0	None of them.	
0	$\{\{1\}, \{2\}, X\}.$	
0	$\{\{2\}, \{1, 2\}, X\}.$	
0	{x} Correct	

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MTH634 - Topology (Quiz No. 3)
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uestion # 7 of 10 ( <mark>start time: 12:</mark> 2	2:10 PM, 15 February 2022 )	Total Marks:
Which of the following statemer	t is true?	
elect the correct option	ble	
0	Correct	
All spaces are metrizable.		
0		
	cia	k to Save Answer & Move to Next Question

Total Marks:

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

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Select t	he correct option	VUAnswer.com	📿 Reload Math Equations
0	$\{\{2\},\{1,2\},X\}$	Correct	
0	None of them.		
0	$\{\{1\}, \{1, 2\}, \{2\}, X\}.$		
0	$\{\{1\}, \{2\}, X\}.$		
			Click to Save Answer & Move to Next Ouestion

MTH634 - Topology (Quiz No.
-----------------------------

_	Let $(X, \tau)$ be a metrizable then which of the following statement is true	
Select 1	the correct option	👰 Reload Math Equations
0	All of them Correct	
0	(X, au) is separable.	
0	(X, au) has the countable chain collection	
0	(X, au) is second countable.	
		Click to Save Answer & Move to Next Question

MTH634 - Topology	(Quiz No. 3)	i

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

Total Marks:

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

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

raise	Correct	
True		

MTH634 - Topology	Ouiz No. 3
MIND34 - Topology	Quiz NO. 3

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

Questio	Question # 3 of 10 ( <mark>Start time: 12:17:38 PM, 15 February 2022</mark> )	
Let J	$\mathcal{K}=\{1,2,3,4\}$ and $ au=\{\emptyset,\{1\},\{2\},\{1,2\},X\}$ be a topology on $X$ , then which of the following is true $\gamma$	1
Select	the correct option	Reload Math Equations
0	(X,  au) be a topological space.	
0	Every element of $X$ has countable local base.	
0	(X, au) be a first countable space.	
0	All of them. Correct	
	Click to Save An	wer & Move to Next Question

		12 125
MTH634 -	Topology	(Quiz No. 3)

	Question # 4 of 10 (Start time: 12:18:22 PM, 15 February 2022) Total Marks:	
Let 2	$X = \{a, b, c\}$ and $\tau = \{\emptyset, \{a\}, \{a, b\}, X\}$ be a topology on $X$ , then which of the following is NOT true $?$	
select	the correct option	ath Equations
0	(X, au) be a first countable space.	
0	(X, au) be a second countable space.	
0	All of them.	
0	(X, au) be a Topological space.	
	Click to Save Answer & Move to H	ext Question

Download More Quizzes Files From	
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uestion #1	of 10 ( Start time: 12:15:55 PM, 15 February 2022 )	Total Marks:
Let $X = \{$	$\{1,2,3,4\}$ and $ au=\{\emptyset,\{1\},\{2\},\{1,2\},X\}$ be a topology on $X$ , then w	hich of the following is NOT true ?
elect the c	prect option	Reload Math Equations
O <sup>(x,</sup>	au) be a first countable space.	
○ <sup>(x,</sup>	$\tau$ ) be a topological space.	
C Ever	$\gamma$ element of $X$ has uncountable local base.	
C The	local base of the element 4 is 9.	

4 <sup>6</sup> iii 10:37 <b>9</b> ···		10:37 <b>•</b> ···		© 4G <sub>2</sub> (	85
		S	:		
3)		Quiz Start Time:	10:30 AM, 1		
e: 10:37:07 AM, 15 February 2022 )					
Download More Quizze VUAnswer.com	s Files F	From	Reload N		
Correct					
	Download More Quizze VUAnswer.com	Pulms.vu.edu.pk	Image: 10:37:07 AM, 15 February 2022)         Metric topology induced by $d(x, y) =  x - y $ on $\mathbb{R}$ is called $ -, -, -, -, -, -, -, -, -, -, -, -, -, -$		

Total Marks:

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

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

elect	the correct option	🔗 Reload Math Equations
0	None of them	
0	Indiscréte topology	
0	discrete topology Correct	
0	usual topology	
_		Click to Save Answer & Move to Next Question

MTH634 - Topology	Quiz No.	3)
mining ichered	dair	-,

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

Total Marks:

Let (	(X, au) be a metrizable then which	n of the following statement is true
Select	the correct option	Download More Quizzes Files From 👩 Reload Mo
	(X, au) is second countable.	VUAnswer.com
0	(X, au) is separable.	
0	All of them Correct	
	(X, au) has the countable chair	n collection

Click to Save Answer & Move to Next Question

#### 

Total Marks:

#### Question # 10 of 10 ( Start time: 11:17:22 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 ( $B_{\sigma}$ ) of the point x = 3, 4, 5 is\_\_\_\_\_\_ Download More Quizzes Files From

#### Select the correct option VUAnswer.com

		P Reibud Main Equatoris
	$\{\{2\}, \{1, 2\}, X\}$	
0	{X} Correct	
•	$\{\{1\}, \{2\}, X\}.$	
•	None of them.	
		Click to Save Answer & Move to Next Question

Concerning Learning

Total Marks: 1

#### Question # 7 of 10 ( Start time: 11:15:05 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 ?

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#### Select the correct option VUAnswer.com

		Neloca Mas requisions
	(X, au) be a topological space.	
	The local base of the element 4 is 0. Correct	
0	(X, au) be a first countable space.	
•	Every element of $X$ has uncountable local base	
		Click to Sove Answer & Move to Next Question

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MTH634	- Topolo	gy (Quiz N	10.3)		
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SCC(S) Quiz Start Time: 11:10 AM, 15 February 2022

Total Marks:

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

Let 2	$X = \{1, 2, 3, 4\}$ and $ au = \{\emptyset, \}$	$1\},\{2\},\{1,2\},X\}$ be a topology on $X,$ then which	h of the following is true ?
Select	the correct option		👩 Reload Math Equations
0	Every element of $X$ has cou	table local base.	
0	All of them	Correct	
0	(X, au) be a first countable s	Jace.	
0	(X, au) be a topological spa	9.	
			Click to Save Answer & Move to Next Question

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MTH634 - Topology	Ouiz No 3

Total Marks: 1

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

 $\{\{1\}, \{2\}, X\}$ 

Click to Save Answer & Mave to Next Question

MTH634 - Topology (Quiz No. 3)

Total Marks: 1

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

Which of the following statement is false?

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,	
0	Discrete topology on a real line 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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uesti	on # 3 of 10 ( Start time: 11:11:44 AM, 15 February 2022 )	Total Mark:
2.000.0	$X=\{a,b,c\}$ and $\tau=\{\emptyset,\{a\},\{b\},\{a,b\},X\}$ be a topology on $X$ if $B=\{\emptyset,\{a\},\{b\},\{a,b\},X\}$ be a topology on $X$ if $B=\{\emptyset,\{a\},\{b\},\{a,b\},X\}$ be a topology on $X$ if $B=\{\emptyset,\{a\},\{b\},\{b\},\{b\},\{b\},\{b\},\{b\},\{b\},\{b\},\{b\},\{b$	
Select	the correct option	neload Math Equations
0	(X, au) be a first countable space.	
0	B be the countable base.	
0	All of them Correct	
_	(X, au) be a second countable space.	

Total Marks: 1

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

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

 Select the correct option

 Image: The set {0,{3},{4}} is an open cover of the set {4}.

 Image: The set {0,{3},{4}} is an open cover of the set {2}.

 Image: Name of them.

 Image: The set {0,{3}, is an open cover of the set {4}.

 Image: Correct interval

 Image: The set {0,{3}, is an open cover of the set {2}.

 Image: The set {0,{3}, is an open cover of the set {4}.

 Image: The set {0,{3}} is an open cover of the set {4}.

 Image: The set {0,{3}} is an open cover of the set {4}.

MTH634 - To	pology (Quiz N	o. 3)	

Whic	h of the following statement is false?	
elect	the correct option	😨 Reload Math Equations
0	The set ${\mathbb R}$ with usual topology is second countable.	
0	Any finite set with any topology is second countable.	
0	Discrete topology on a countable set X is second countable:	
õ	Discrete topology on a real line R is second countable Correct	

Click to Save Answer & Move to Next Question

<sup>6</sup>	<b>(</b> )
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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 # 10 of 10 ( Start time: 11:06:04 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 $A$ select the correct option	= $\{2,3\}$ is a dense set, then which of the following is true?
$igcap_{(X, au)}$ mar or may not be a separable topology.	
(X, 7) must be a separable topology.	t
None of them.	

Click to Save Answer & Move to Next Question



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MC210200552: MUKASHFA GHAFAR MTH634 - Topology (Quiz No. 3)	Quiz Star	Time Left 88 sec(s) t Time: 10:59 AM, 15 February 2022
Question # 9 of 10 ( Start time: 11:05:07 AM, 15 February 2022 ) Let $(X,  au)$ be a metrizable then which of the following statement is true		Total Marks: 1
Select the correct option		Reload Math Equations
(X, au) is separable.		
(X, au) has the countable chain collection		
Correct		
(X, au) is second countable.		
	Click to Save A	nswer & Move to Next Question



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2	× A Quiz vulms.vu.edu.pk	Д	Ş	:
Questic	on # 6 of 10 ( start time: 11:03:04 AM, 15 February 2022 )			Tc
	Metric topology induced by $d(x,y) = \begin{cases} 0\\ 1 \end{cases}$	$egin{array}{ccc} if & x=y \ if & x eq y \  ext{ is cal} \ x eq y \  ext{ is cal} \end{array}$	led =	
Select t	the correct option			🍘 Reload Math E
0	None of them			
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0	discrete topology Correct			
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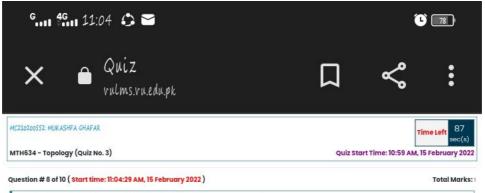


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MC210200552: MUKASHFA GHAFAR MTH634 - Topology (quiz No. 3)	01	Time Left 87 sec(s) iz Start Time: 10:59 AM, 15 February 2022
Question # 7 of 10 ( Start time: 11:03:45 AM, 15 February 2022 )		Total Marks: 1
Let $X=\{a,b,c\}$ and $\tau=\{\emptyset,\{a\},\{b\},\{a,b\},X\}$ be a topology of true ?	in $X$ if $B=\{\emptyset,\{a\},\{b\},X\}$ be the $i$	base of $ au$ , then which of the following is
Select the correct option		🜍 Reload Math Equations
B be the countable base.		
(X, au) be a first countable space.		

0	
0	(X, au) be a second countable space.
0	All of them Correct

Click to Save Answer & Move to Next Quest





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

Select	the correct option	👰 Reload Math Equations
0	All of them.	
0	The set $\{\emptyset, \{3\}, \{4\}\}$ is an open cover of the set $\{4\}.$	
0	The set $\{\emptyset, \{3\}, \{4\}, X\}$ is an open cover of the set $\{4\}.$	
0	The set $\{\emptyset, \{4\}\}$ is an open cover of the set $\{4\}.$	
	1	Click to Save Answer & Move to Next Question



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МС210200552: МИК МТН634 - Торо	ASHFA GHAFAR Nogy (quiz no. 3)	Quiz Sta	Tin rt Time: 10:59 AM, 15	ne Left 47 sec(s) February 2022
Question # 5 of	10 ( Start time: 11:01:37 AM, 15 February 2022 )			Total Marks: 1
Let $X=\{1,2$	$\{2,3,4,5,6\}$ and $ au=\{\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
0	{{2}, {1, 2}, <i>x</i> }. Correct	
0	$\{\{1\}, \{1, 2\}, \{2\}, X\}.$	
0	None of them.	
0	$\{\{1\}, \{2\}, X\}.$	
		Click to Save Answer & Move to Next Question

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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 and x = 1.

🌀 Relo

Select the correct option	

0	{{2}, {1,2}, x}. Correct
0	$\{\{1\}, \{1,2\}, \{2\}, X\}$
0	None of them.
0	$\{\{1\}, \{2\}, X\}$
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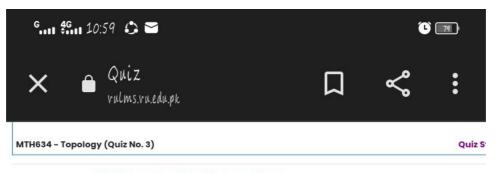




0	True Correct
0	False

Click to Save Answer & Move to Next



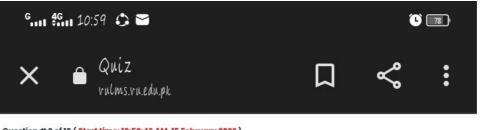


Question # 1 of 10 ( Start time: 10:59:08 AM, 15 February 2022 )

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

#### Select the correct option

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



#### 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

0	Correct
0	False



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

If \$X\$ has more than two points and  $\left( X \right) \right) \ e an indiscrete topology then which of the following statement is tr <math>\left( X \right)$ 

#### Select the correct option

0	It is metrizable.
0	None of them.
0	It is Haussdorff.
0	It is not metrizable.
	Click to Save Answer & Move to Net

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uesti	on # 10 of 10 ( start time: 10:37:07 AM, 15 February 2022 )			т
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0	usual topology Correct			
	discrete topology			
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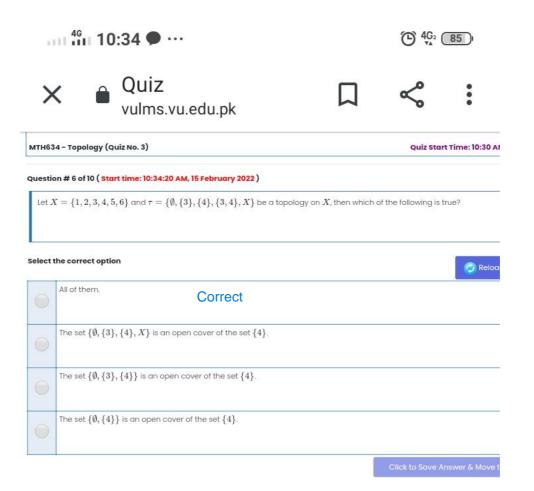
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	X,\tau } \right)\$ be a separable topology then it must	t have countable den:	se set.	

True Correct
False

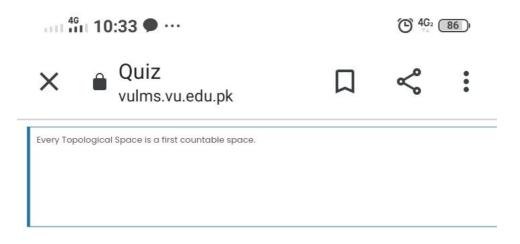


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uesti	on # 8 of 10 ( Start time: 10:35:40 AM, 15 February 2022 )		Toto
elect	the correct option	٢	Reload Math Eq
	{{1}, {2}, X}.		
	{{2}, {1,2}, X}. Correct		
0	$\{\{1\}, \{1, 2\}, \{2\}, X\}.$		

- 11	10:36 <b>•</b> ···		G 4G2 85	
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мтн634	- Topology (Quiz No. 3)		Quiz Start Time	e: 10:30 AM, 15 F
Question	# 9 of 10 ( Start time: 10:36:27 AM, 15 February 2022 )			
	Metric topology induced by $d(x, y)$ =	$= \left\{egin{array}{cccc} 0 & if & x=y \ 1 & if & x eq y \  ext{ is cal} \end{array} ight.$	led\_\_\_\_\_	
	e correct option ndiscrete topology			🌍 Reload Mat
() ()	usual topology			
•	None of them			
	discrete topology Correct			
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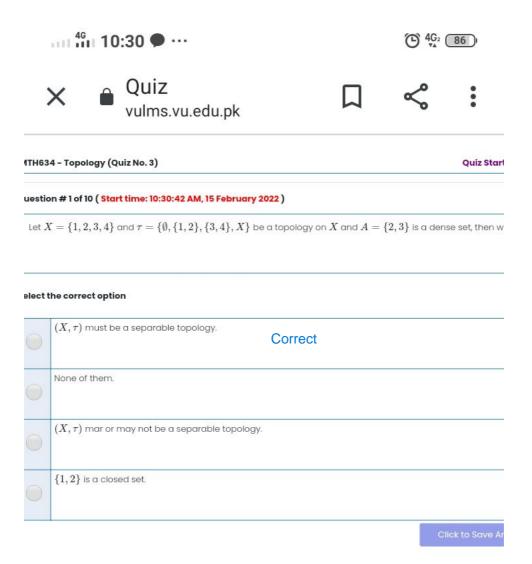


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мтн63	34 - Topology (Quiz No. 3)	Quiz Start Time:
auesti	on # 5 of 10 ( start time: 10:33:45 AM, 15 February 2022 )	
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Select	the correct option $\{\{1\},\{2\},X\}.$	 ¢
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0	$\{\{1\}, \{2\}, X\}.$	¢

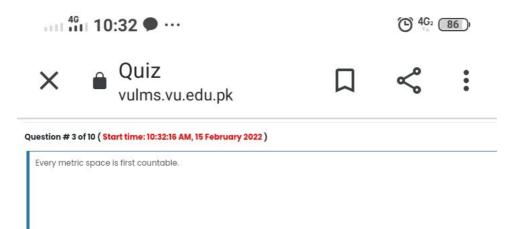


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MTH634 - Topology (Quiz No. 3)	
Question # 9 of 10 ( Start time: 10:25:54 AM, 15 February 2022 )	
Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{\emptyset, \{3\}, \{4\}, \{3, 4\}, X\}$ be a topology and	Y there are a second se
	we want which of the following 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 $\{4\}$ .	
	Correct
O None of them.	
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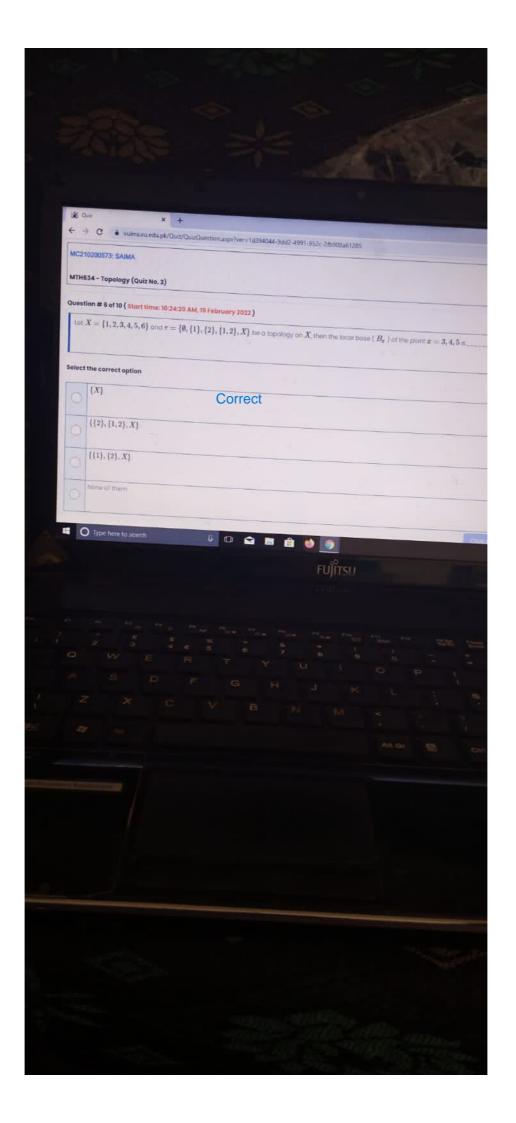
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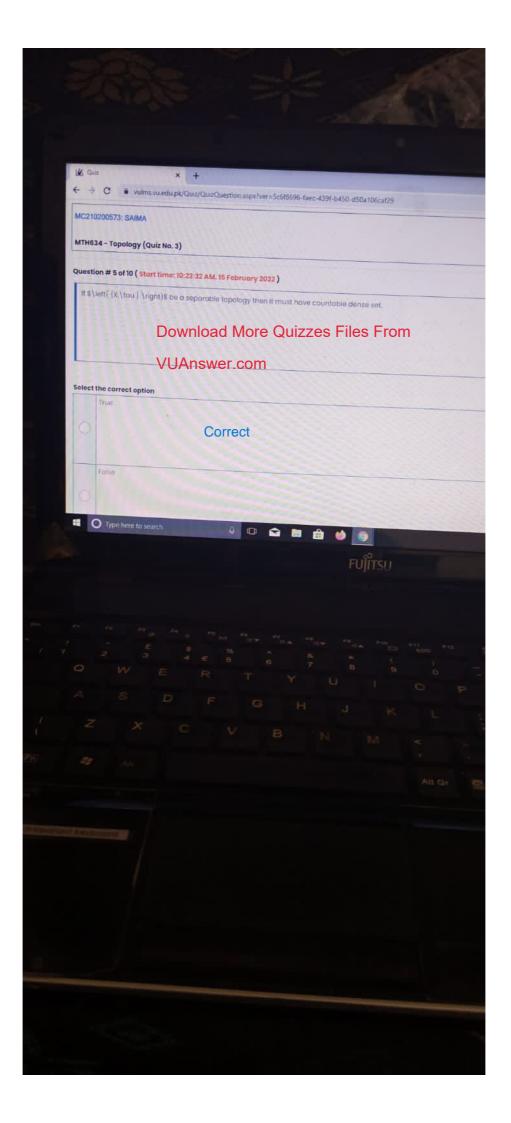
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MC2	10200573: SAIMA
MTH	634 - Topology (Quiz No. 3)
Quest	tion # 8 of 10 ( Start time: 10:25:17 AM, 15 February 2022 )
Wh	ich of the following statement is folse?
Select	t the correct option
0	Discrete topology on a countable set X is second countable.
0	The set $\mathbb{R}$ with usual topology is second countable.
0	Any finite set with any topology is second countable.
_	
0	Discrete topology on a real line R is second countrable.
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	34 - Topology (	Quiz No. 3)					
Questi	on # 7 of 10 ( Sto	irt time: 10:24	:47 AM, 18	February	y 2022 )		
	h of the followin						
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Question # 2 of 10 ( Start time: 10:20:59 AM, 15	(Fabruary 2022)	
and a faining and the full full fail	$\{0\}, A\}$ be a topology on $A$ if $B = \{\emptyset, \{a\}, \{a\}, \{a\}, \{a\}, \{a\}, \{a\}, \{a\}, \{a\}$	$b\},X\}$ be the base of 1: then which of the following is true P
Select the correct option		
All of them	Correct	
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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 $ au=\{\emptyset,\{a\},\{a,b\},X\}$ be a topology on $X$ then which	of the following is NOT true ?
Select the correct option	
$(X, \tau)$ be a second countable space.	
Correct	
(X, au) be a Topological space.	
All of them	
(X,  au) be a first countable space.	
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Question # 4 of 10 ( Start time: 10:22:54 AM, 15 February 2022 )	
Which of the following statement is folse?	
a real automating accuernment is folge?	
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The set $\mathbb{R}$ with usual topology is	second countable.
Discrete topology on a real line R is second countable	
Correct	
Any finite set with any topology is second countable	
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Discrete topology on a countable set X is second countable	
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Question # 1 of 10 (Start time: 10:19:28 AM, 15 February 2022)	
Let $X=\{1,2,3,4\}$ and $ au=\{\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,  au) man or may not be a separable topology	
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None of them	
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(X, T) must be a sebarable topology.	
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Question # 10 o	f 10 ( <mark>Start</mark> 1	time: 10:15:31 AM, 15 February 2022 )		Total Marks
Select the corre	ect option	any topology is second countable.		Reload Math Equations
		on a real line R is second countable		
			Correct	
0		The set ${\mathbb R}$ with usual	topology is second countable.	
O Discrete	e topology	on a countable set X is second countable.		

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#### BC180401082: MUHAMMAD AJMAL

MTH634 - Topology (Quiz No. 3)

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

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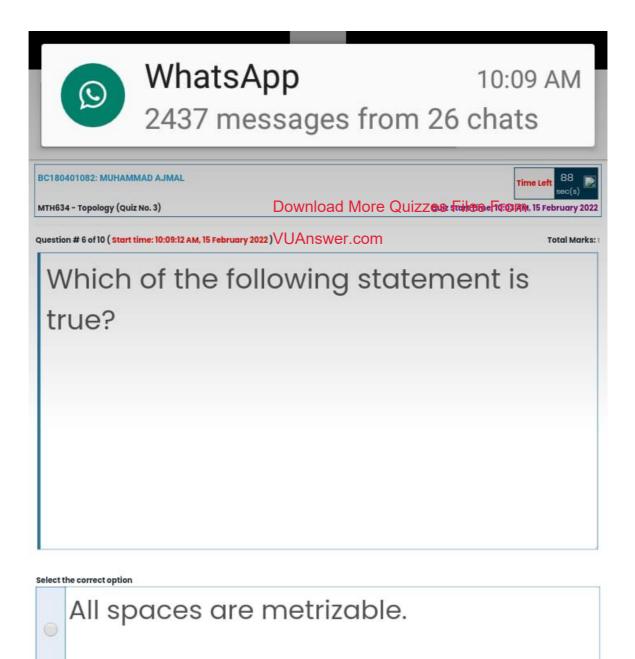
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#### Question # 9 of 10 ( Start time: 10:13:36 AM, 15 February 2022 )

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  $\tau$ , then which of the following is true ?

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



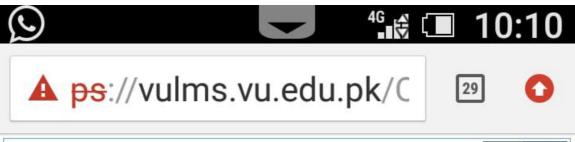


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#### BC180401082: MUHAMMAD AJMAL

MTH634 - Topology (Quiz No. 3)

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

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Total Marks:

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

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

		Reload Math Equations
0	(X, au) must be a separable topology. Correct	
0	$\{1,2\}$ is a closed set.	
0	None of them.	
0	(X, au) mar ar may not be a separable topology.	
		Click to Save Answer & Move to Next Question





# <sup>₄</sup>.... 10:12

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MTH634 - Topology (Quiz No. 3)

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

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

Total Marks:

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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 ?

		Reload wat regulations
0	All of them. Correct	
0	Every element of $X$ has countable local base.	
	(X, au) be a first countable space.	
0	(X, au) be a topological space.	
		Click to Save Answer & Move to Next Question



# 46 🖬 💶 10:06

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#### BC180401082: MUHAMMAD AJMAL

MTH634 - Topology (Quiz No. 3)

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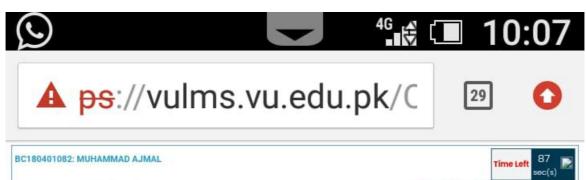
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#### Question # 3 of 10 ( Start time: 10:06:17 AM, 15 February 2022 )

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 Ø. Correct (X, τ) be a topological space. Every element of X has uncountable local base. (X, τ) be a first countable space. (X, τ) be a first countable space.





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:

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

Select	the	correct	option
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		Reload Math Equations
0	$\{\{1\}, \{2\}, X\}.$	
	$\{\{1\},\{2\},\{1,2\},X\}.$	
0	None of them	
	{{1},{1,2},X}. Correct	
		Click to Save Answer & Move to Next Question



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#### BC180401082: MUHAMMAD AJMAL

MTH634 - Topology (Quiz No. 3)

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

Time Left

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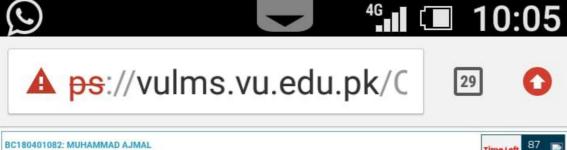
Total Marks:

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

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

# Select the correct option Reload Math Equations Image: Select the correct option Nome of them. Image: Select the correct option Correct Image: Select the correct option Select to Sove Answer 5. Move to Next Outestion





#### BC180401082: MUHAMMAD AJMAL

MTH634 - Topology (Quiz No. 3)

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

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Total Marks:

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

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

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0	None of them.	
	$\{\{2\}, \{1, 2\}, X\}.$	
0	$\{\{1\}, \{2\}, X\}$ .	
0	{X} Correct	



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MC200200090: MAHNOOR REHMAN MTH634 - Topology (Quiz No. 3)	Time Left 87 sec(s) 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 $ au=\{\emptyset,\{1\},\{2\},\{1,2\},X\}$ be a topole	bgy on $X_i$ then which of the following is NOT true ?
select the correct option	🧭 Reload Math Equations
Every element of X has uncountable local base.	
(X, au) be a first countable space.	
(X, au) be a topological space.	
The local base of the element 4 is Ø. Download More Q	
Download More Q	Click to Save Answer & Move to Next Question

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Total Marks:

#### BC180401082: MUHAMMAD AJMAL

MTH634 - Topology (Quiz No. 3)

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

Time Left

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

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

Select	the correct option	Reload Math Equations
0	(X, au) is second countable.	
0	(X, au) is separable.	
0	All of them Correct	
0	(X,  au) has the countable chain collection	
-		Click to Save Answer & Move to Next Question

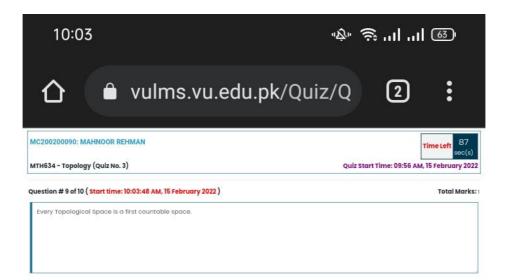


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MC200200090: MAHNOOR REHMAN MTH634 - Topology (quiz No. 3)	T <mark>ime Left</mark> 88 sec(s) Quiz Start Time: 09:56 AM, 15 February 2022
Question # 7 of 10 ( Start time: 10:02:18 AM, 15 February 2022 )	Total Marks:
Metric topology induced by	$d(x,y) =  x-y   ext{ on } \mathbb{R}  ext{ is called} ackslash - akkslash - akkslash - akkslash - akkslash - akk$
Select the correct option	🧔 Reload Math Equations
discrete topology	
indiscrete topology	
None of them	
O usual topology Correct	t



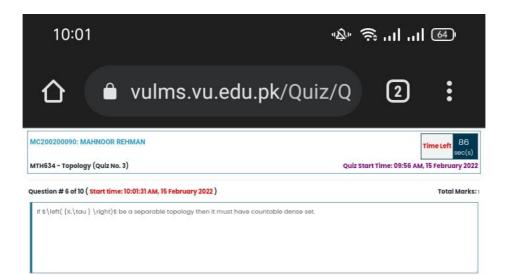
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MC200200090: MAHNOOR REHMAN MTH634 - Topology (quiz No. 3)	Time Left 85 soc(s) Quiz Start Time: 09:56 AM, 15 February 202
Question # 8 of 10 ( start time: 10:03:00 AM, 15 February 2022 )	Total Marks
Select the correct option	😰 Reload Math Equations
$(X, \tau)$ be a topological space.	
$(X, \tau)$ be a first countable space.	
All of them.	





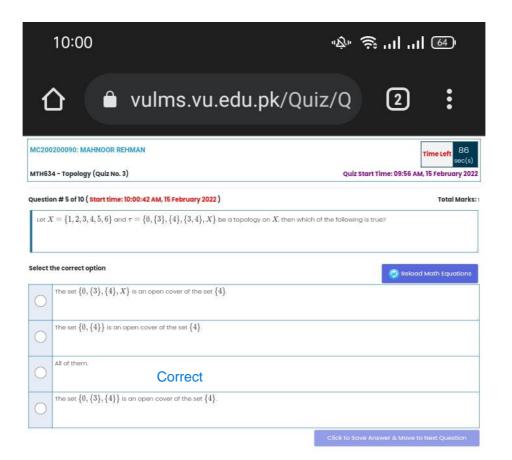
0	True
0	False
	Click to Save Answer & Move to Next Question





0	Correct
0	False
	Click to Save Answer & Move to Next Question







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MC200200090: MAHNOOR REHMAN MTH634 - Topology (Quiz No. 3)		T <mark>ime Left</mark> 81 sec(s) Quiz Start Time: 09:56 AM, 15 February 202:
Question # 4 of 10 ( Start time: 09:59:56 AM	I, 15 February 2022 )	Total Marks
17.1 (19.1 (	$\{, \{2\}, \{1,2\}, X\}$ be a topology on $X$ . oad More Quizze	then the local base ( $B_x$ ) of the point $x = 1$ is es Files From
select the correct option VUAns	swer.com	👰 Reload Math Equations
$\bigcirc {\{\{1\},\{2\},X\}}$		
○ <sup>{{1}, {1, 2}, x}</sup> .	Correct	
$\bigcirc \ ^{\{\{1\},\{2\},\{1,2\},X\}.}$		
None of them		
		Click to Save Answer & Move to Next Question



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	lu.pk/Quiz/Q 2
MC200200090: MAHNOOR REHMAN MTH634 - Topology (quíz No. 3)	T <mark>ime Left</mark> 86 soc(s) Quiz Start Time: 09:56 AM, 15 February 202
Question #1 of 10 ( <mark>Start time: 09:56:15 AM, 15 February 2022</mark> )	Total Marks
Select the correct option	Reload Math Equations
<ul> <li>→</li> <li>→</li> <li>→</li> <li>↓</li> <li>↓</li></ul>	
○ {{2},{1,2}, <i>x</i> }. Correct	
$\bigcirc {\{\{1\},\{1,2\},\{2\},X\}}.$	

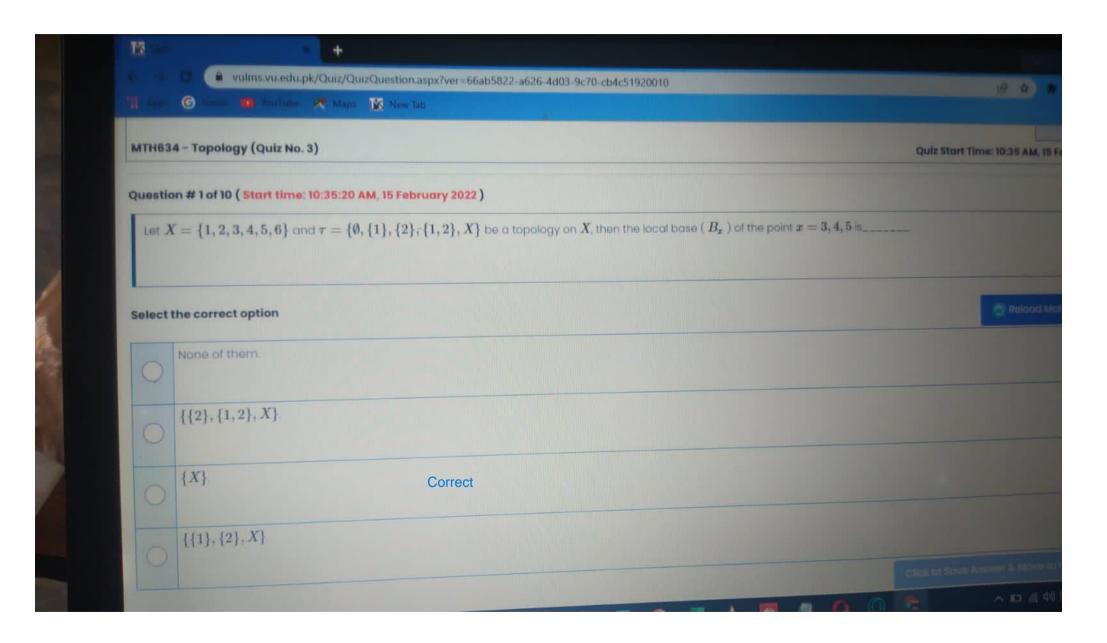


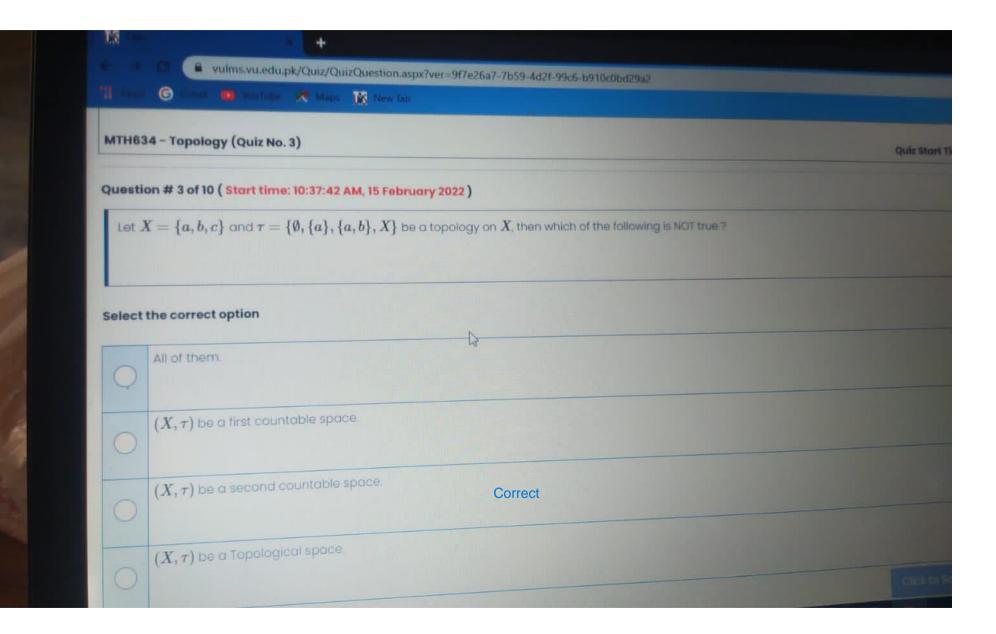
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MC200200990: MAHNOOR REHMAN MTH634 - Topology (Quiz No. 3)	T <mark>ime Left</mark> 83 عەد (t Quiz Start Time: 09:56 AM, 15 February 20
Question # 2 of 10 ( Start time: 09:58:14 AM, 15 February 2022 )	Total Mark
Metric topology induced by $d(x, y) = \begin{cases} 0 & if  x = y \\ 1 & if  x \neq y \end{cases}$ Select the correct option	
indiscrete topology	🕢 Reload Math Equations
None of them	
discrete topology Correct	



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	0: MAHNOOR RE				Qui	iz Start Time		Time Left 84 sec(s) 1, 15 February 202
Question # 3 o	of 10 ( <mark>Start time</mark> :	09:58:58 AM, 15 Fel	bruary 2022 )					Total Marks
Select the corr		real line R is second	d countable	Correct			🌍 Reload	l Math Equations
Any fin	nite set with any	topology is second	countable.					
0		Ċ	The set ℝ with usua	l topology is secon	d countable.			
Discret	ite topology on a	i countable set X is t	second countable.					







MIHO	34 - Topology (Quiz No. 3)	Quiz Start Time:
Quest	ion # 2 of 10 ( Start time: 10:36:32 AM, 15 February 2022 )	
Let .	$X=\{1,2,3,4\}$ and $ au=\{\emptyset,\{1\},\{2\},\{1,2\},X\}$ be a topology on $X$ , then which of the following is NOT true?	
Select	the correct option	
Q	The local base of the element 4 is Ø. Correct	
0	The local base of the element 4 is Ø.       Correct         Every element of X has uncountable local base.       >	
0	Correct	

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

**Total Mark** 

Reload Math Equation:

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?

#### elect the correct option

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

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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?

0	(X, au) must be a separable topology. Correct		
0	None of them.		
0	(X, au) mar or may not be a separable topology.		
0	$\{1,2\}$ is a closed set.	R	



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#### uestion # 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 ?

# Reload Math Equation Image: Reload Math Equati

Click to Save Answer & Move to Next Question

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MTH634 - Topology (Quiz No. 3)

Quiz Start Time: Iu

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

Every metric space is first countable.

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	True	Correct			
-	False				
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#### juestion # 4 of 10 ( Start time: 10:30:00 AM, 14 February 2022 )

**Total Mark** 

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

۲	(X, au) is separable.
0	(X,  au) is second countable.
0	(X, au) has the countable chain collection
0	All of them Correct
	Click to Save Answer & Move to Next Question

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**Total Mark** 

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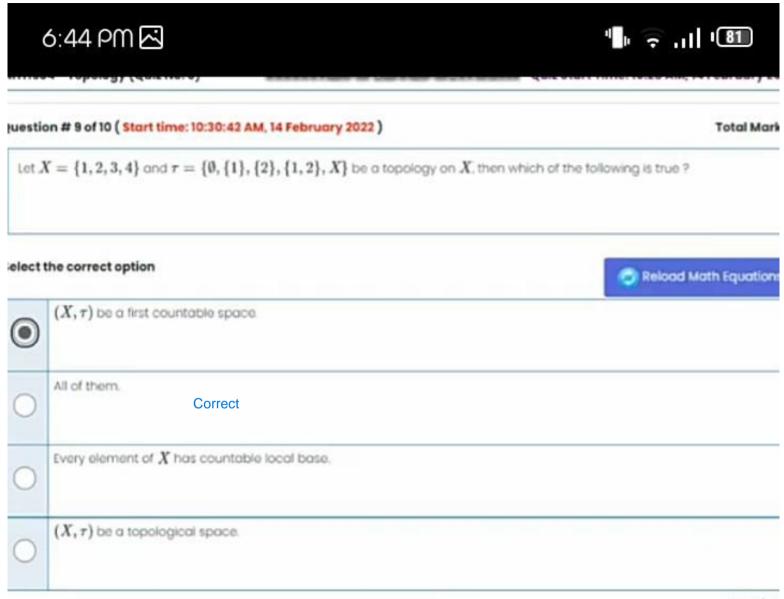
#### uestion # 9 of 10 ( Start time: 10:30:42 AM, 14 February 2022 )

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 true ?

#### elect the correct option

۲	(X, au) be a first countable space.	
0	All of them. Correct	
0	Every element of $X$ has countable local base.	
0	(X, au) be a topological space.	

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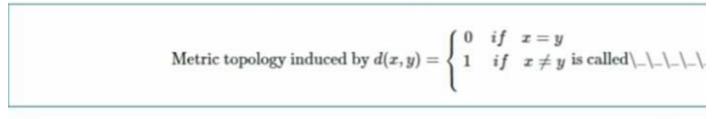
uestic	on # 5 of 10 ( Start time: 10:30:10 AM, 14 February 2022 )	Total Mark		
	Let $X = \{1, 2, 3, 4, 5, 6\}$ and $\tau = \{\emptyset, \{1\}, \{2\}, \{1, 2\}, X\}$ be a topology on $X$ , then the local base ( $B_x$ ) of the point $x = 3, 4, 5$ is			
	Download More Quizzes Files From			
elect	VUAnswer.com the correct option	C Reload Math Equations		
۲	{X} Correct			
0	$\{\{2\}, \{1, 2\}, X\}.$			
0	$\{\{1\}, \{2\}, X\}.$			
0	None of them.			

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MTH634 - Topology (Quiz No. 3)

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



elect	the	correct	option
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0	None of them				
0	usual topology				
0	discrete topology	Correct			
0	indiscrete topology				
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Quiz Start Time: IU:

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

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If \$X\$ has more than two points and \$\left( {X,\tau } \right)\$ be an indiscrete topology then which of the following statemen is true about \$\left( {X,\tau } \right)\$ ?

۲	It is not metrizable.				
0	It is Haussdorff.				
0	None of them.				
0	It is metrizable.				
	1		Click	to Save Answer & Move to	Next Duestion
	1	Dislike	Share	Create	Dowr

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