Question # 6 of 10 (Start time: 01:15:45 PM, 21 May 2023)

A subset U of R2 is open in R2 iff it contains an ..... at each of its points.

Select the correct option

- closed interval
- open sphere
- open disk
- closed disk

Question # 7 of 10 (Start time: 01:16:39 PM, 21 May 2023)

Let $X = \{1, 2, 3\}$ and $\tau = \{\phi, \{1\}, \{2\}, \{1, 2\}, X\}$ then (X, τ) as a pair will be called .....

Select the correct option

- Discrete topology
- Indiscrete topology
- None of these
- Topological space

Click t

MTH634 - Topology (Quiz No. 1)

Question # 8 of 10 (Start time: 01:17:32 PM, 21 May 2023)

In a topological space, a subset of A of X closed if the compliment of A in X is open .

Select the correct option

- False
- True

Let $(a_1, a_2, \ldots)$ be a sequence of points in an indiscrete topological space X. Then the sequence $(a_1, a_2, \ldots)$

he correct option

Reload

is non-convergent.

convergent to every point b belongs to X.

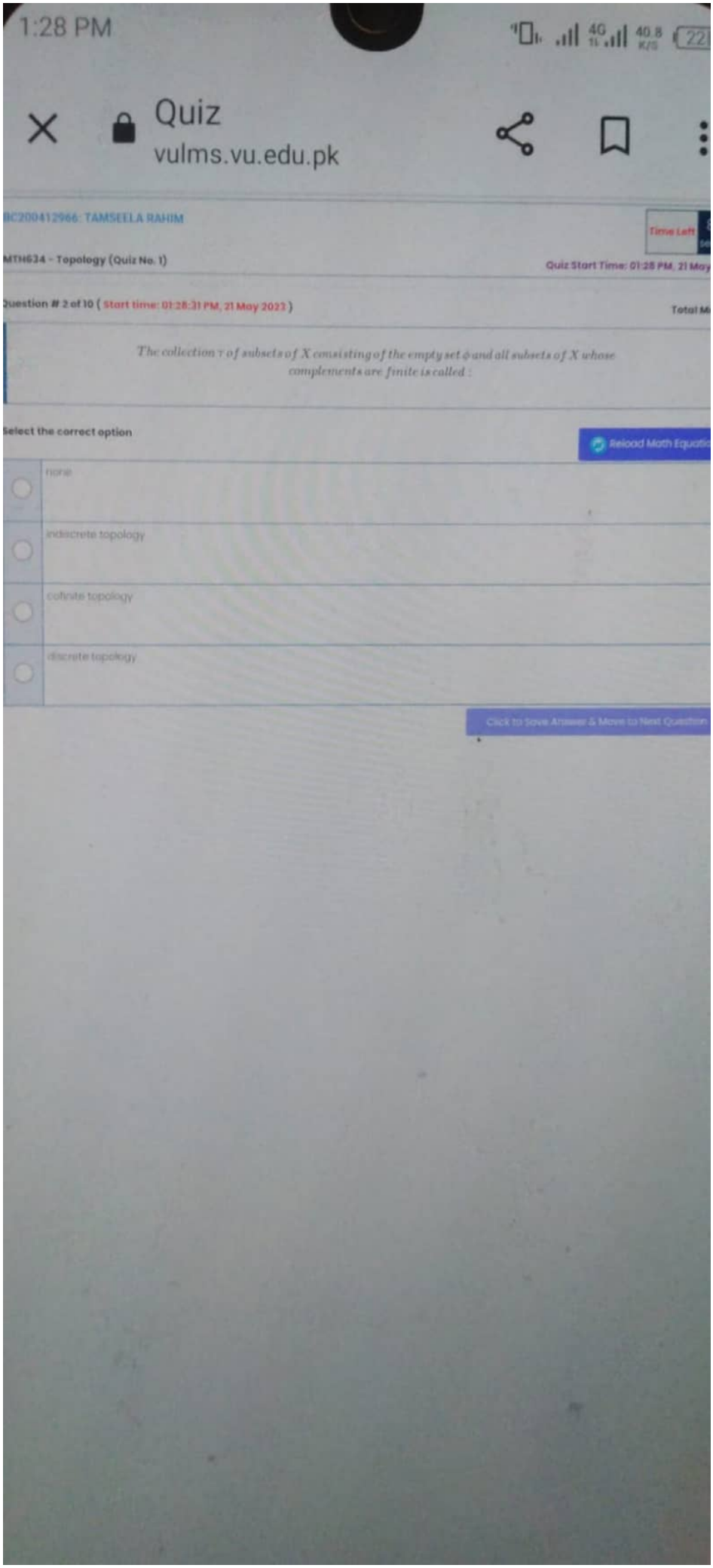
Click to Save Answer & Move to

Question # 10 of 10 (Start time: 01:19:11 PM, 21 May 2023)

For any set there are always two topologies namely..... .....

Select the correct option

- Discrete and Indiscrete Topology
- Co finite and Indiscrete Topology
- Lower limit topology and discrete topology
- Discrete Topology and cofinite Topology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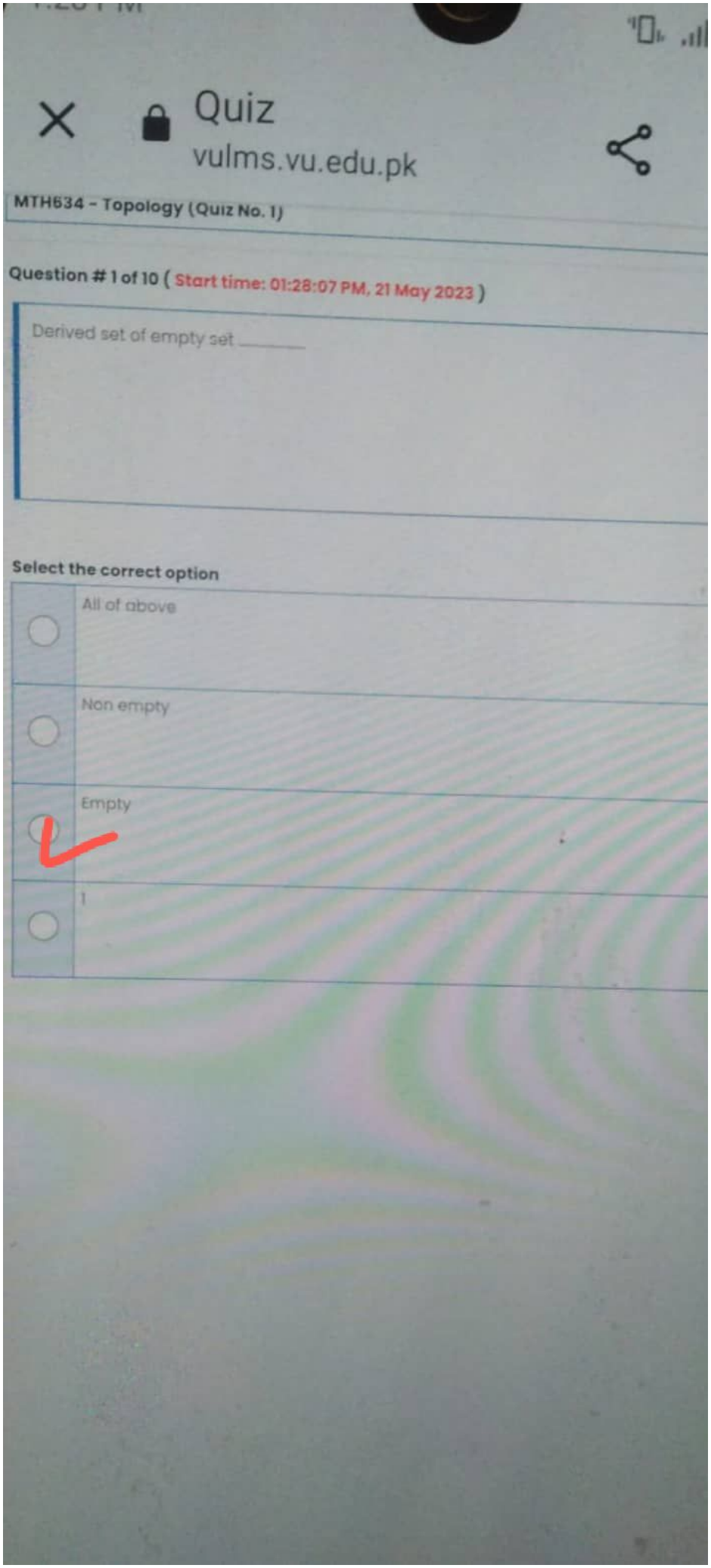
Quiz
vulms.vu.edu.pk
BC200412966: TAMSEELA RAHIM
Time Left
MTH634 - Topology (Quiz No. 1)
Quiz Start Time: 01:28 PM, 21 May
Question # 2 of 10 (Start time: 01:28:31 PM, 21 May 2023)
Total M
The collection τ of subsets of X consisting of the empty set ϕ and all subsets of X whose complements are finite is called :
Select the correct option
Reload Math Equatio
none
indiscrete topology
cofinite topology
discrete topology
Click to Save Answer & Move to Next Question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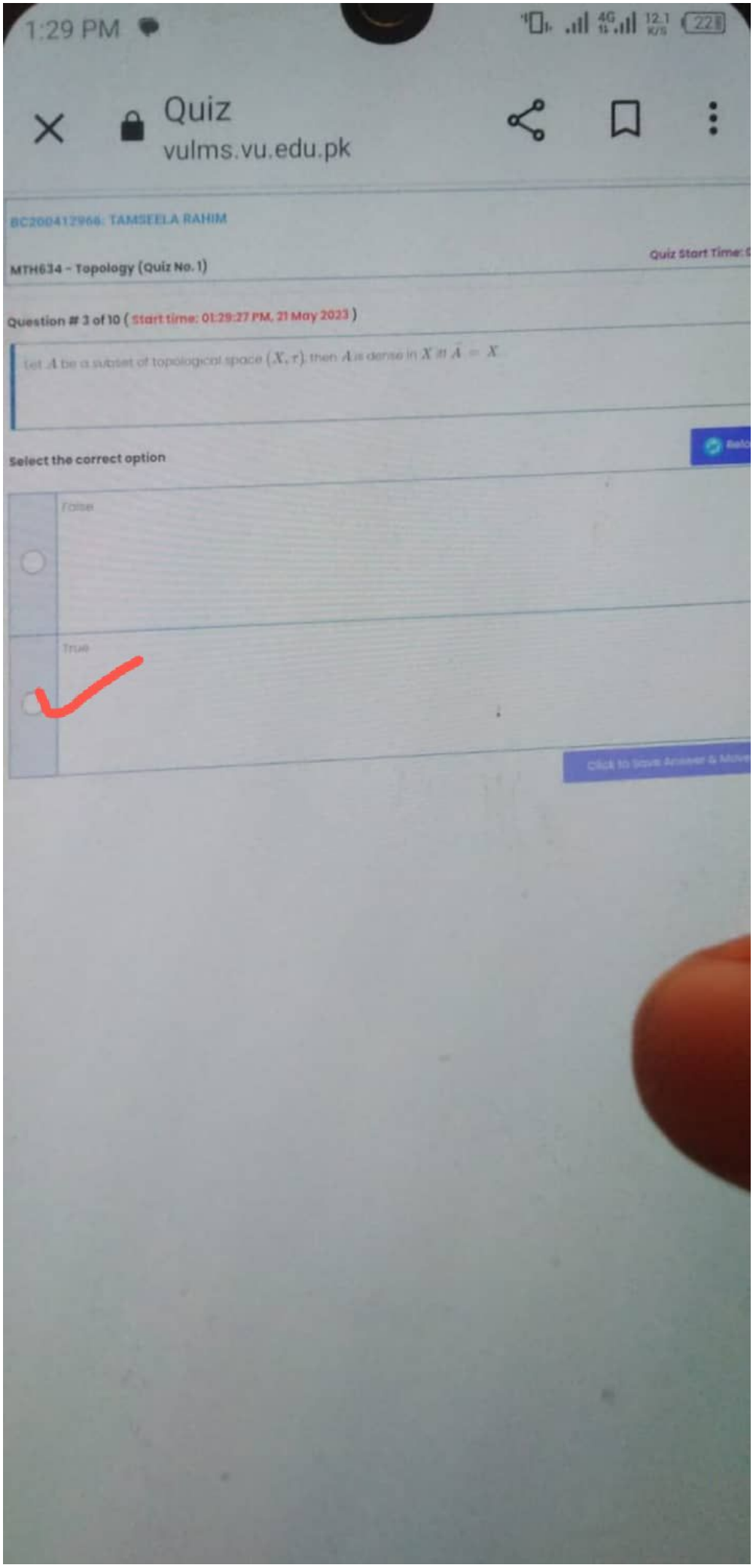
MTH634 - Topology (Quiz No. 1)
Question # 1 of 10 (Start time: 01:28:07 PM, 21 May 2023)
Derived set of empty set _____
Select the correct option
All of above
Non empty
Empty
1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BC200412966: TAMSEELA RAHIM
MTH634 - Topology (Quiz No. 1)
Quiz Start Time:
Question # 3 of 10 (Start time: 01:29:27 PM, 21 May 2023)
Let A be a subset of topological space (X, τ), then A is dense in X if $\bar{A} = X$
Select the correct option
False
True
Click to Save Answer & Move

:30 PM

Quiz

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Time Left

334 - Topology (Quiz No. 1)

Quiz Start Time: 01:28 PM, 21 Ma

tion # 4 of 10 (Start time: 01:30:20 PM, 21 May 2023)

Total M

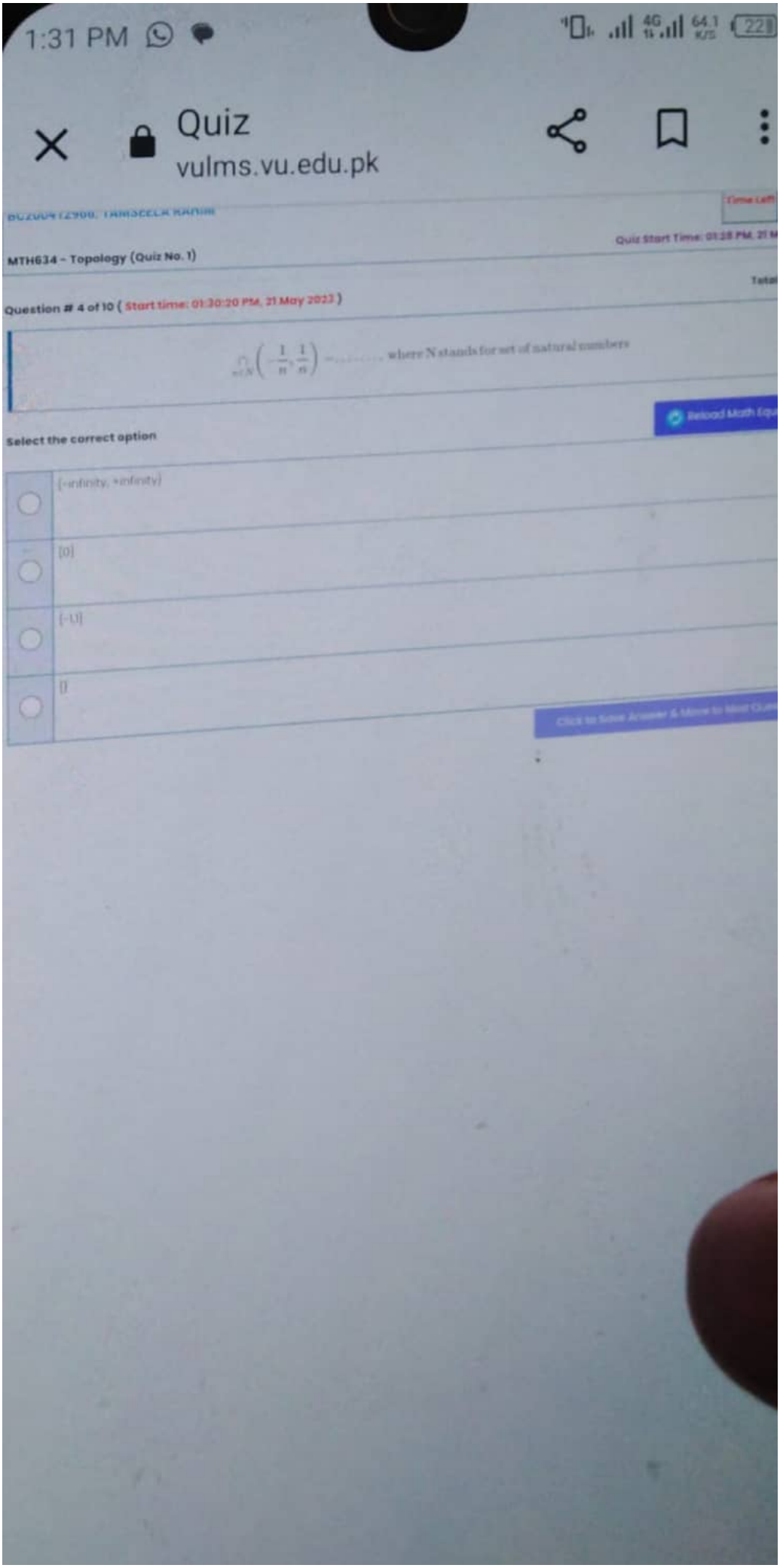
$\bigcap_{n \in N}\left(-\frac{1}{n}, \frac{1}{n}\right) =$ ..... where N stands for set of natural numbers

ct the correct option

Reload Math Equati

- (-infinity, +infinity)
- {0}
- (-1,1)
- {}

Click to Save Answer & Move to Next Question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MTH634 - Topology (Quiz No. 1)
Question # 4 of 10 (Start time: 01:30:20 PM, 21 May 2023)
$\bigcap_{n \in N}\left(-\frac{1}{n}, \frac{1}{n}\right)$ ..... where N stands for set of natural numbers
Select the correct option
(-infinity, +infinity)
{0}
(-1)
{}

Quiz

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BC200412966: TAMSEELA RAHIM

MTH634 - Topology (Quiz No. 1)

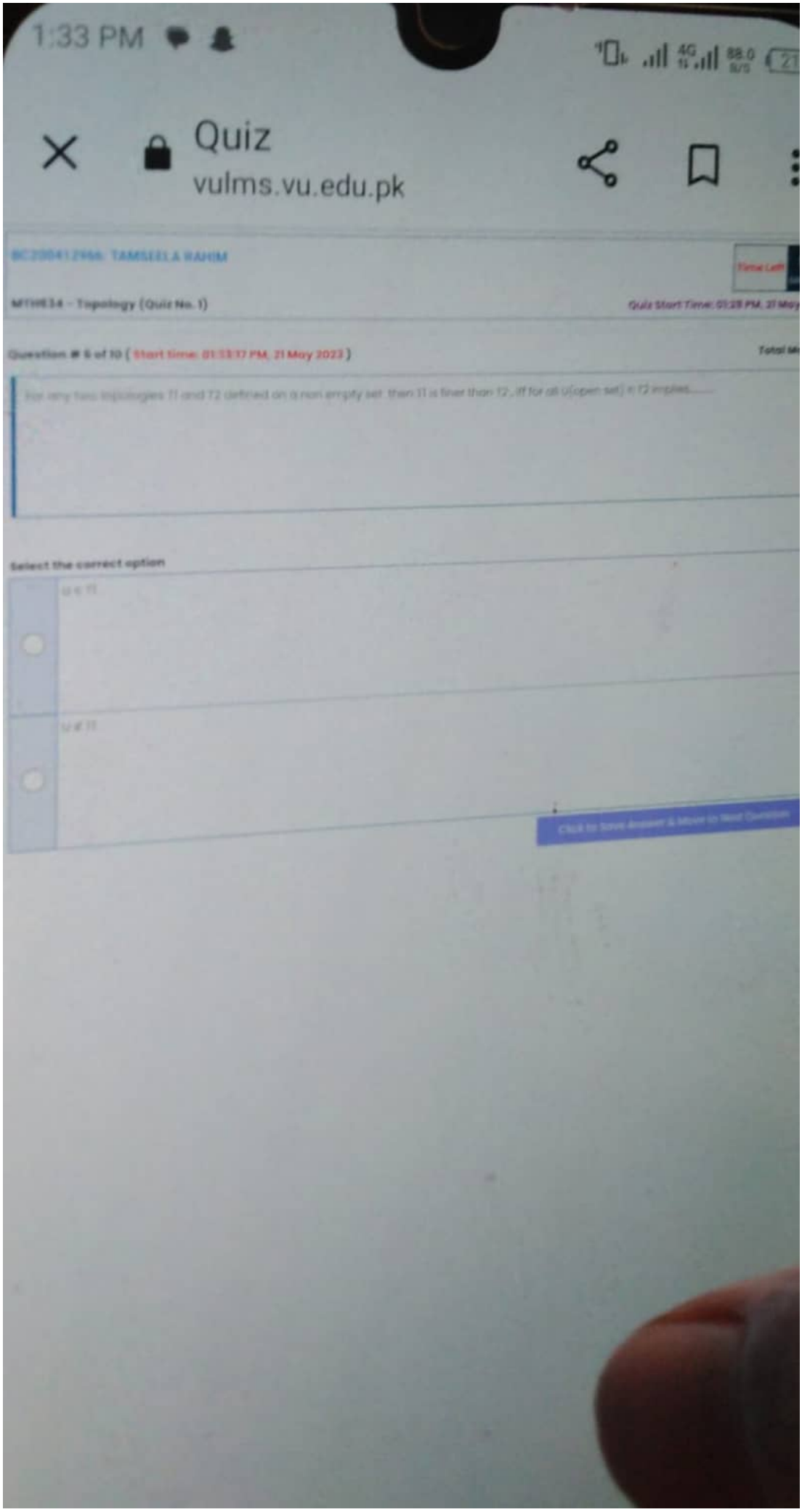
Question # 5 of 10 (Start time: 01:31:50 PM, 21 May 2023)

Let A, B be two subsets of a topological space X then

Select the correct option

- $int(A) \cup int(B) \subset int(A \cup B)$
- $int(A \cup B) \subset int(A) \cup int(B)$

Click to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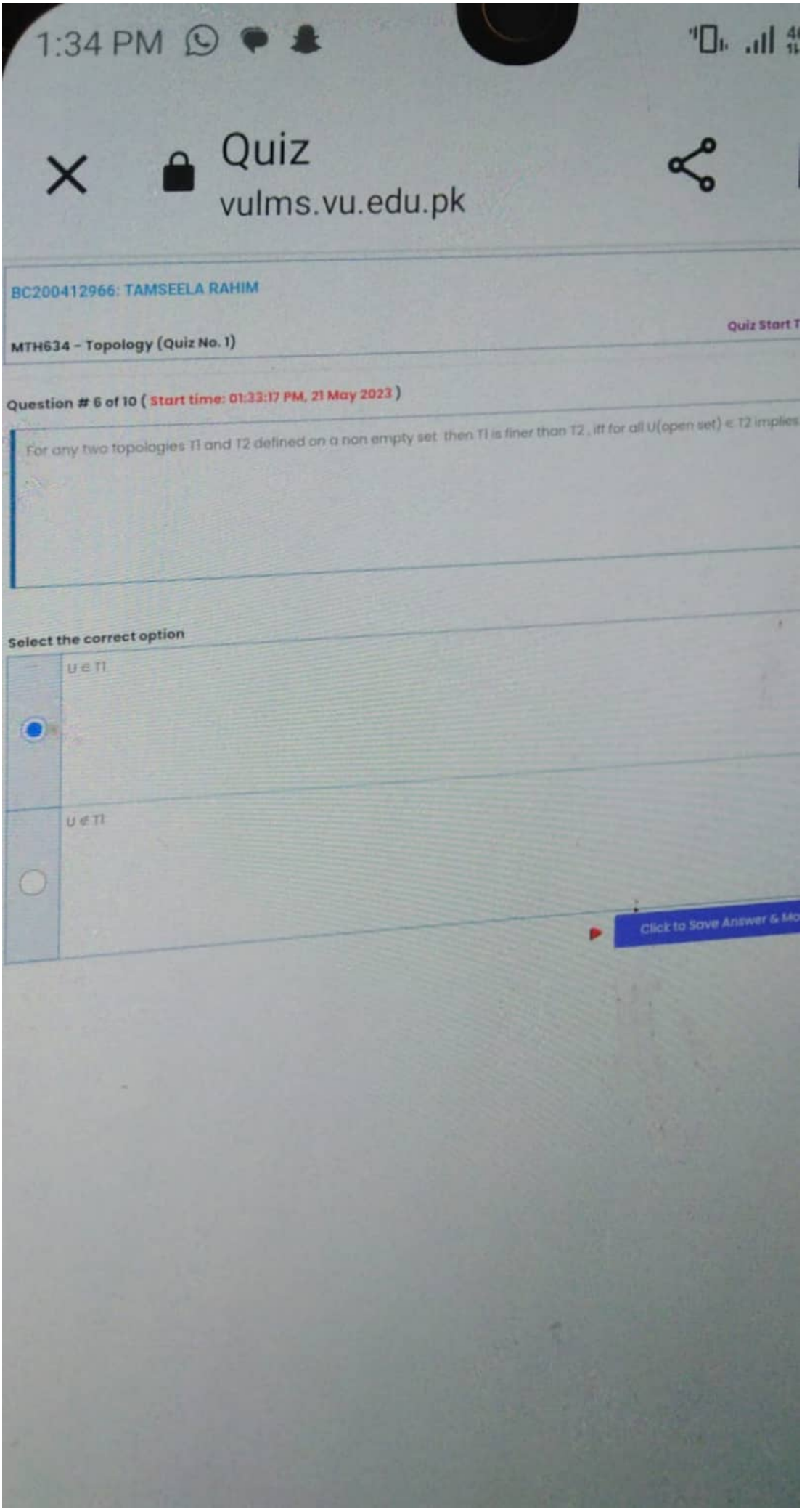
MTH634 - Topology (Quiz No. 1)
Select the correct option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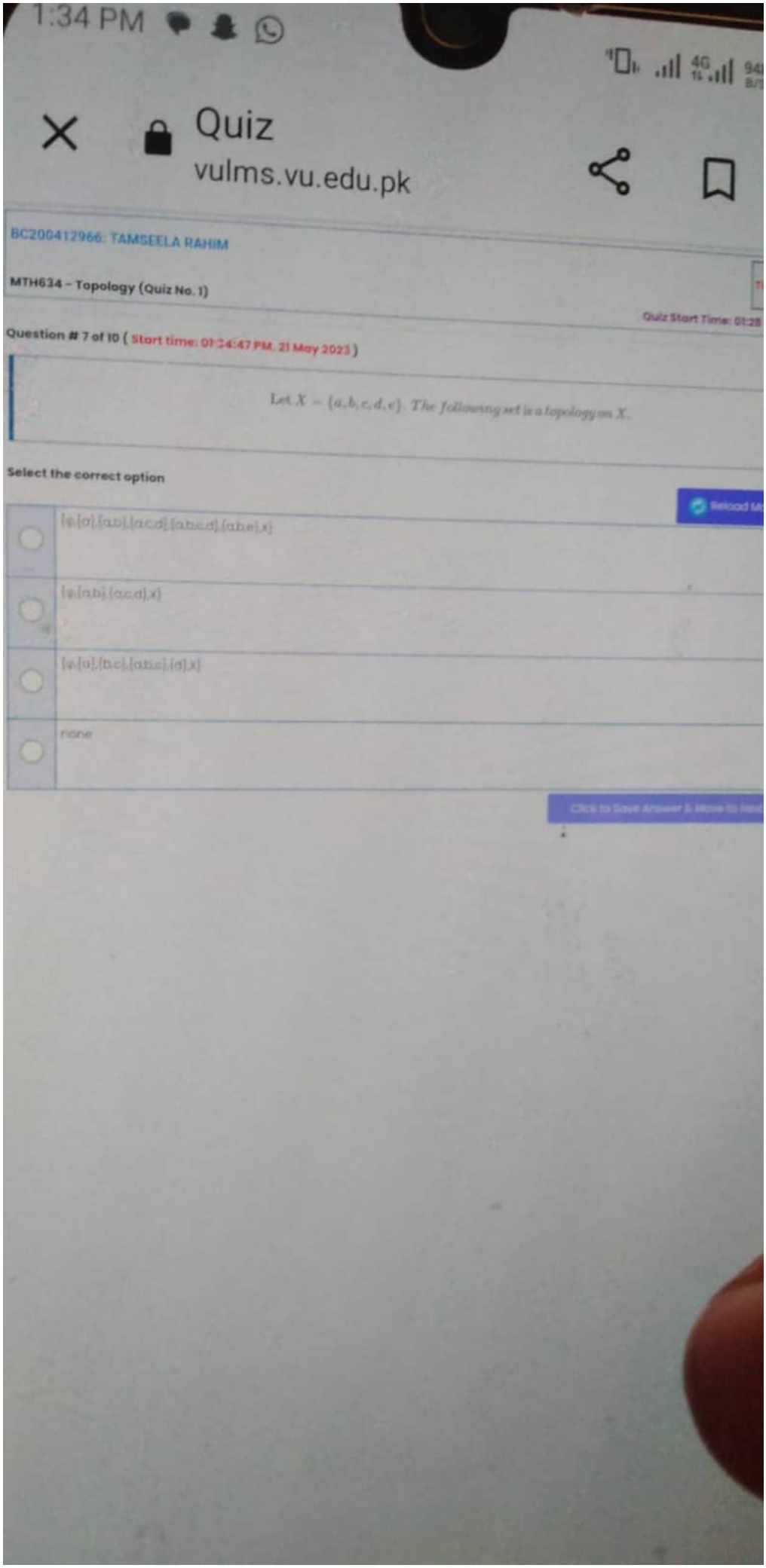
BC200412966: TAMSEELA RAHIM
MTH634 - Topology (Quiz No. 1)
Quiz Start T
Question # 6 of 10 (Start time: 01:33:17 PM, 21 May 2023)
For any two topologies T1 and T2 defined on a non empty set then T1 is finer than T2 , iff for all U(open set) ∈ T2 implies
Select the correct option
U ∈ T1
U ∉ T1
Click to Save Answer & Mo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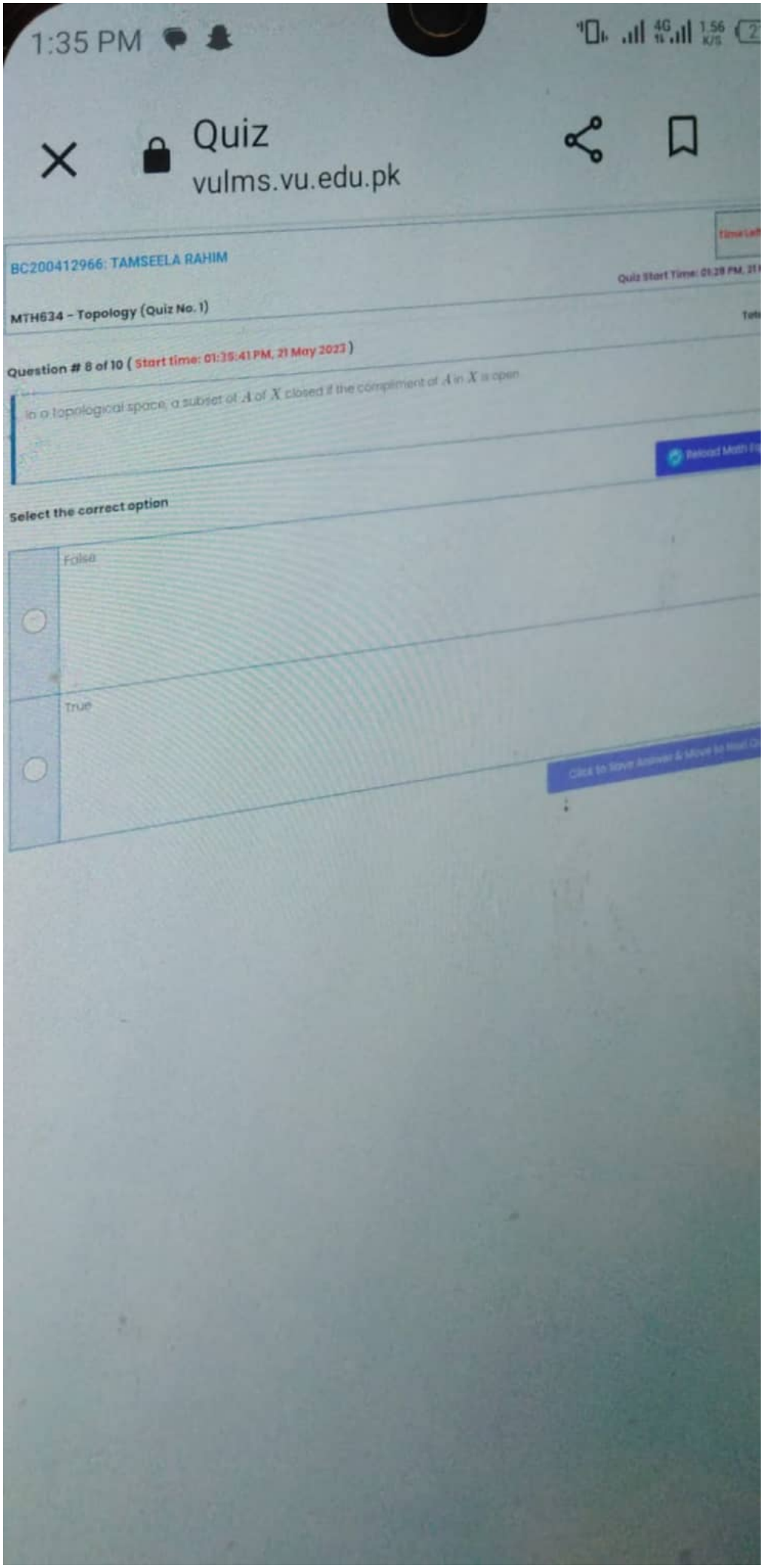
BC200412966: TAMSEELA RAHIM
MTH634 - Topology (Quiz No. 1)
Question # 7 of 10 (Start time: 01:24:47 PM, 21 May 2023)
Let $X = \{a, b, c, d, e\}$. The following set is a topology on X.
Select the correct option
none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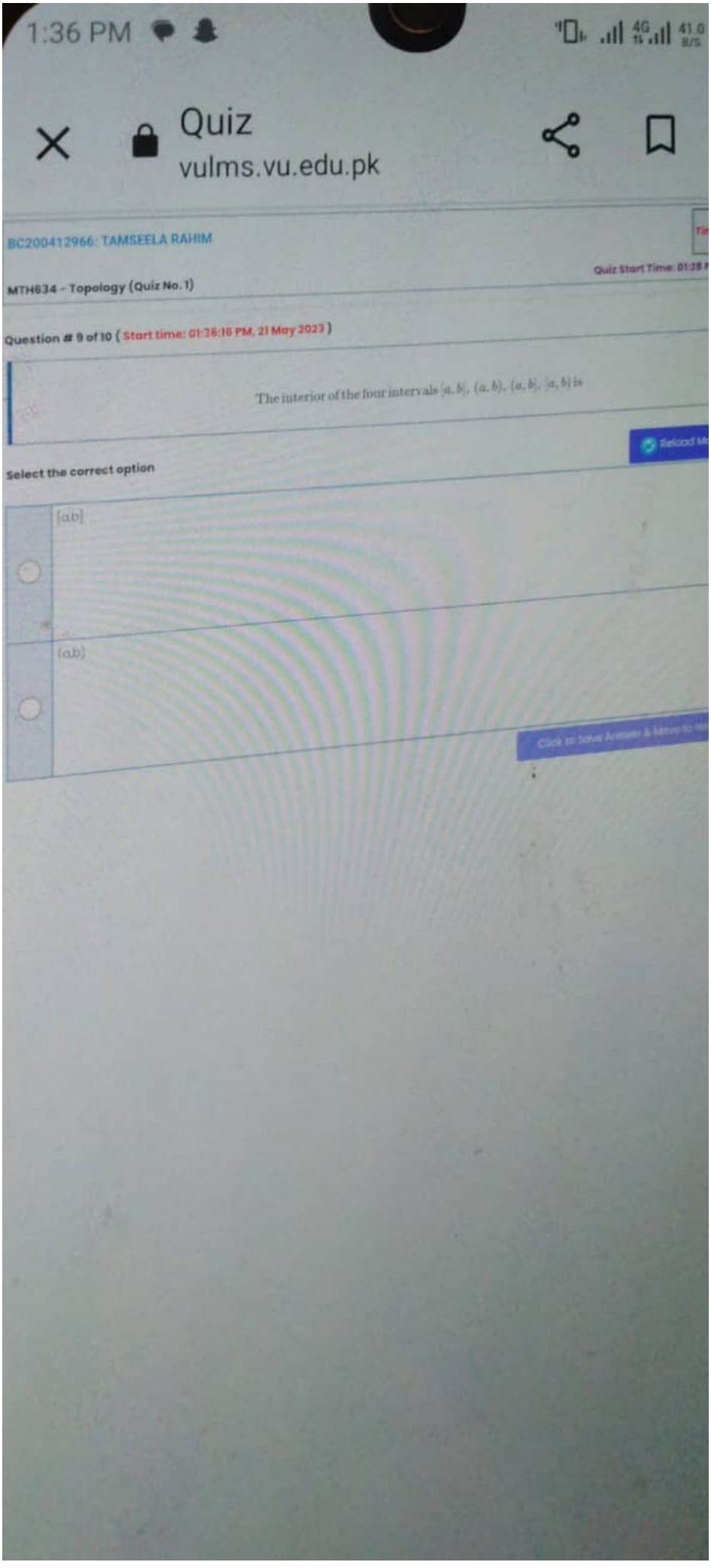
MTH634 - Topology (Quiz No. 1)
Question # 8 of 10 (Start time: 01:35:41 PM, 21 May 2023)
In a topological space, a subset of A of X closed if the compliment of A in X is open
Select the correct option
False
True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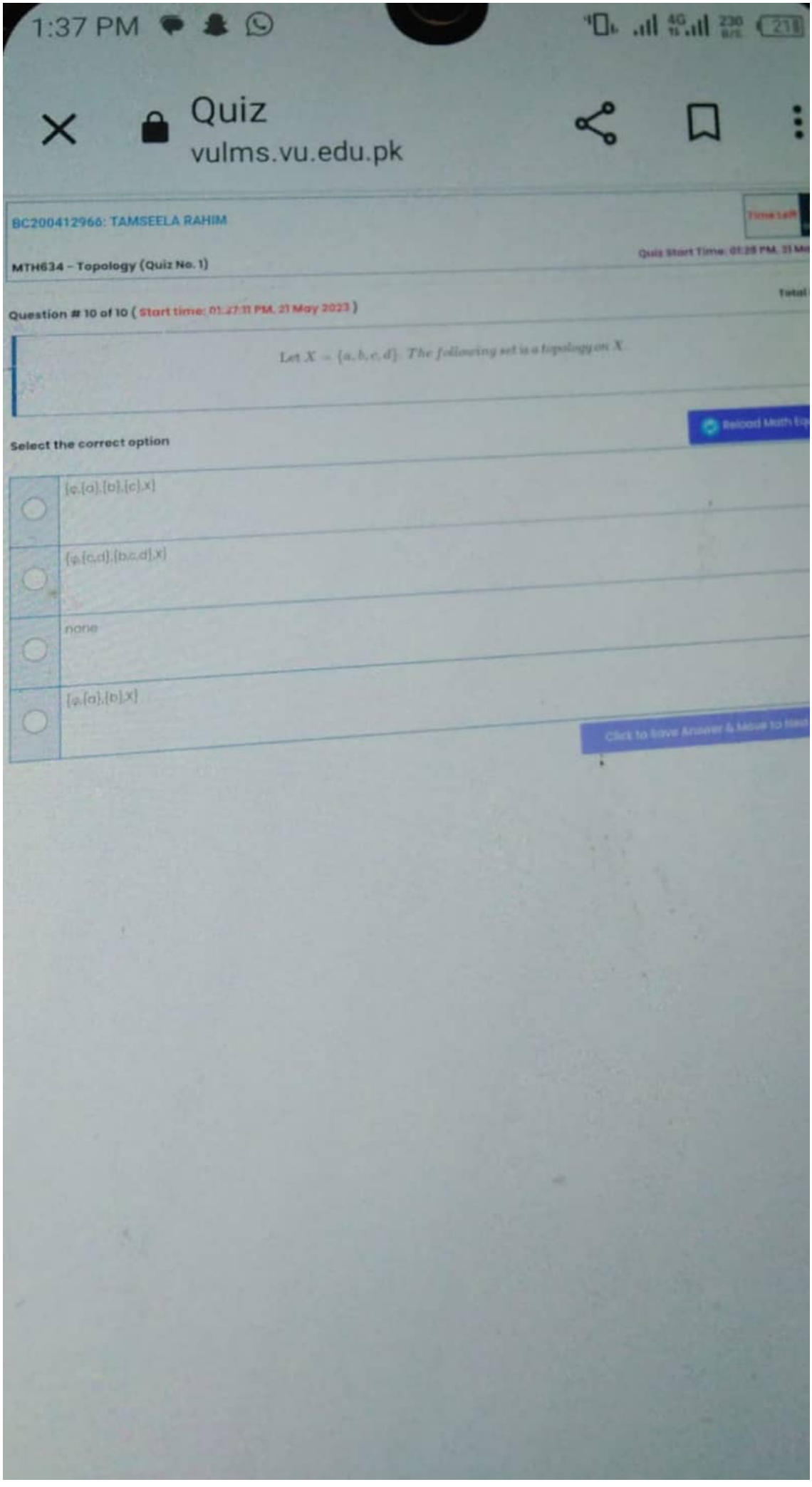
BC200412966: TAMSEELA RAHIM
MTH634 - Topology (Quiz No. 1)
Quiz Start Time: 01:38
Question # 9 of 10 (Start time: 01:36:16 PM, 21 May 2023)
The interior of the four intervals $[a,b]$, (a,b), $(a,b]$, $[a,b)$ is
Reload
Select the correct option
[a,b]
(a,b)
Click to Save Answer & Move to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BC200412966: TAMSEELA RAHIM
MTH634 - Topology (Quiz No. 1)
Question # 10 of 10 (Start time: 01:27:11 PM, 21 May 2023)
Let $X = \{a, b, c, d\}$. The following set is a topology on X
Select the correct option
{φ,{a},{b},{c},X}
{φ,{c,d},{b,c,d},X}
none
{φ,{a},{b},X}

Question # 1 of 10 (Start time: 01:45:24 PM, 21 May 2023)

Let $X = R$ be a usual topology and consider $C = \{1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \ldots\ldots\ldots\ldots\}$ then which of the following is not li

Select the correct option

- Both (b) and (c)
- 1/2
- 1
- 0

Click to Save Answe

Question # 2 of 10 (Start time: 01:46:20 PM, 21 May 2023)

$\bigcap_{n \in N}\left(-\frac{1}{n}, \frac{1}{n}\right) =$ ....., where N stands for set of natural numbers

Select the correct option

- {0}
- {}
- {-infinity, +infinity}
- {-1,1}

Click to Save Ans

Question # 3 of 10 (Start time: 01:47:08 PM, 21 May 2023)

Topology means the study of something with respect to its .....

Select the correct option

- place
- area
- perimeter
- volume

Click to S

Question # 4 of 10 (Start time: 01:47:53 PM, 21 May 2023)

Let $X = \mathbb{R}$ with usual topology and $A = (0, 3)$. *The limit point of* A is

Select the correct option

- 1.5
- 4
- -0.5
- 5

Click to Save An

If X is a finite set then co-finite topology on X is .....

Select the correct option

- discrete topology
- lower limit topology
- indiscrete topology
- none of these

Topology means the study of something with respect to its _____

Select the correct option

- area
- perimeter
- volume
- place

estion # 6 of 10 (Start time: 01:49:27 PM, 21 May 2023)

Let $X = \{a, b, c, d, e\}$ with topology $\tau = \{\phi, \{b\}, \{a, d\}, \{a, b, d\}, \{a, c, d, e\}, X\}$. If $A = \{a, b, c\}$, then

ect the correct option

Reload Mo

- b is not an interior point of A
- b is an interior point of A

Click to Save Answer & Move to N

Let $X = \mathbb{R}^2$ with usual topology and $A = \{(x, y) \in \mathbb{R}^2 | x^2 + y^2 < 4\}$. *Closure of A is*

rect option

Reload

$\{(x, y) \in \mathbb{R}^2 | x^2 + y^2 \geq 4\}$

$\{(x, y) \in \mathbb{R}^2 | x^2 + y^2 \leq 4\}$

$\{(x, y) \in \mathbb{R}^2 | x^2 + y^2 = 4\}$

$\{(x, y) \in \mathbb{R}^2 | x^2 + y^2 > 4\}$

Click to Save Answer & Move to

uestion # 8 of 10 (Start time: 01:51:44 PM, 21 May 2023)

In a topological space, the interior of a set *A* is the union of all

elect the correct option

- open subsets of *A*
- closed subsets of *A*

Question # 9 of 10 (Start time: 01:52:37 PM, 21 May 2023)

A proper closed subset of a topological space X can never dense in X.

Select the correct option

- False
- True

uestion # 10 of 10 (Start time: 01:53:31 PM, 21 May 2023)

Let $X = \{a, b, c, d, e\}$. The following set is a topology on X.

elect the correct option

Reloc

- {φ,{a},{ab},{a,c,d},{a,b,c,d},{a,b,e},X}
- none
- {φ,{a},{bc},{a,b,c},{d},X}
- {φ,{ab},{a,c,d},X}

Click to Save Answer & Move

Question # 4 of 10 (Start time: 01:14:29 PM, 21 May 2023)

Let (X, τ) be the topological space and $A, B \subset X$ if $A \subset B$ then:

Select the correct option

- None of above
- $\bar{A} \subset B$
- $\bar{A} \subset \bar{B}$
- $A \subset B$

Click to Sa

Question # 3 of 10 (Start time: 01:13:19 PM, 21 May 2023)

Let A, B be two subsets of a topological space X. Then

Select the correct option

- $Int(A) \cup Int(B) \subset Int(A \cup B)$
- $Int(A \cup B) \subset Int(A) \cup Int(B)$

If in a topology τ on X, all subsets of X are called open and closed, then τ is called :

ect the correct option

Reloc

- none
- discrete space
- Indiscrete space
- metric space

Click to Save Answer & Move

MTH634 - Topology (Quiz No. 1) Quiz Start Time: 12

Question # 9 of 10 (Start time: 12:59:22 PM, 21 May 2023)

In the discrete space X convergent sequences must be of the form given below, where b belongs to X

Select the correct option

- $(a_1, a_2, \ldots, a_n, b, b, b, \ldots)$
- $(a_1, a_2, \ldots)$
- none
- $(a_1, a_2, \ldots, a_n, b, b, b)$

Click to Save Answer & Move

Quiz

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C200405450: KANWAL MUNIR

TH634 - Topology (Quiz No. 1)

uestion # 6 of 10 (Start time: 12:53:11 PM, 21 May 2023)

_____ of a subset A of a topological space (X, τ) is the set of all limit points of A.

elect the correct option

- Super Set
- All of above
- Derived Set
- Proper Set

Type here to search

Quiz

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C200405450: KANWAL MUNIR

ITH634 - Topology (Quiz No. 1)

uestion # 2 of 10 (Start time: 12:51:16 PM, 21 May 2023)

In a topological space, the interior of a set A is the union of all

elect the correct option

- closed subsets of A
- open subsets of A

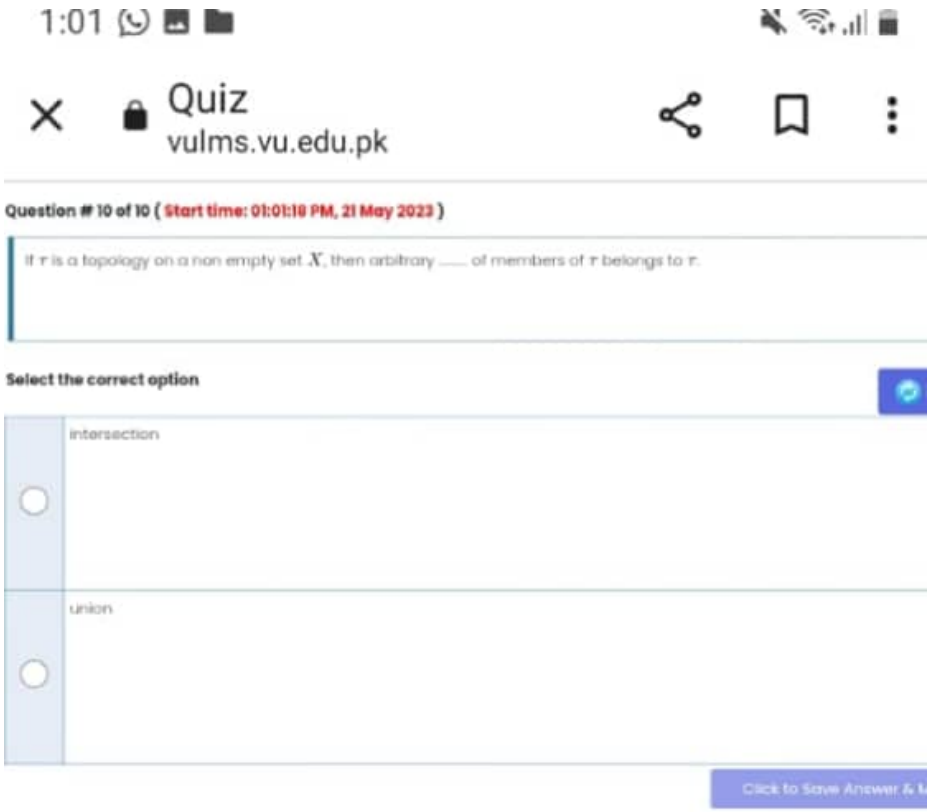
Type here to search

Every open subset of the real line is a union of disjoint .....

Select the correct option

- Semi Open Intervals
- Closed Intervals
- Sets
- Open Intervals

Click to Save Answer & Move t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Quiz
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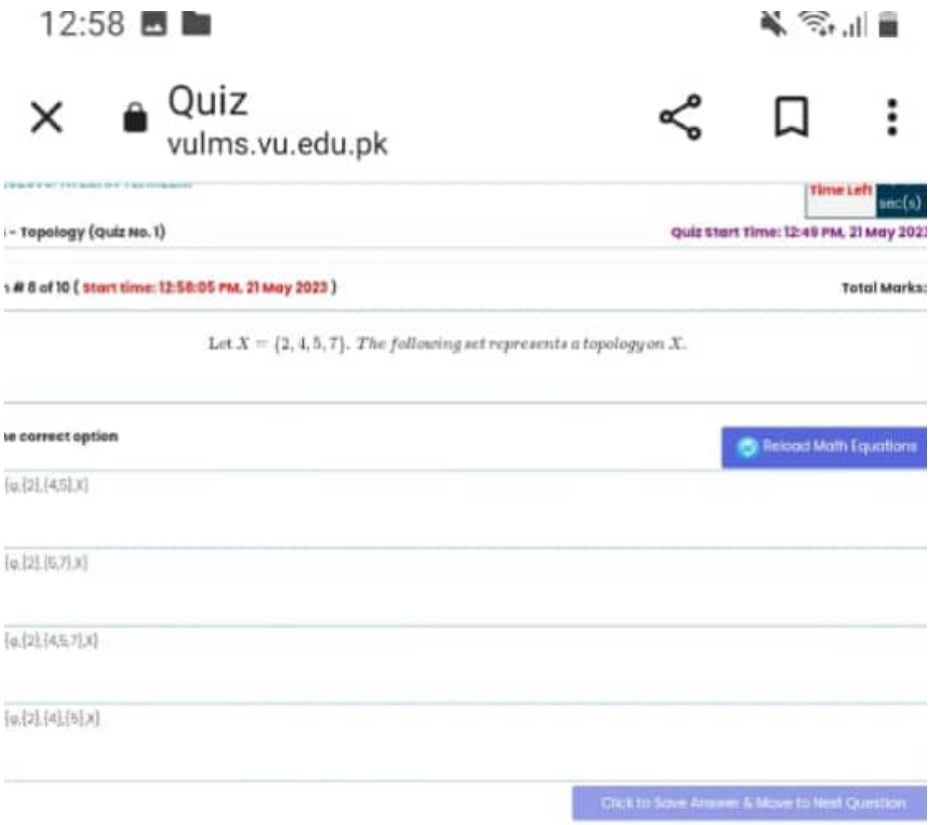
Question # 10 of 10 (Start time: 01:01:18 PM, 21 May 2023)
If τ is a topology on a non empty set X, then arbitrary ..... of members of τ belongs to τ.
Select the correct option
intersection
union
Click to Save Answer & M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Time Left
sec(s)
- Topology (Quiz No. 1)
Quiz Start Time: 12:49 PM, 21 May 202
8 of 10 (Start time: 12:56:05 PM, 21 May 2023)
Total Marks:
Let $X = \{2, 4, 5, 7\}$. The following set represents a topology on X.
e correct option
Reload Math Equations
{φ,{2},{4,5},X}
{φ,{2},{5,7},X}
{φ,{2},{4,5,7},X}
{φ,{2},{4},{5},X}
Click to Save Answer & Move to Next Question

Question # 6 of 10 (Start time: 12:54:21 PM, 21 May 2023)

Let (X, τ) be the topological space and $A, B \subset X$,If $A \subset B$ then:

Select the correct option

- $A \subset B$
- $\bar{A} \subset \bar{B}$
- $\bar{A} \subset B$
- None of above

Let $X = \mathbb{R}^2$ with usual topology and $A = \{(x, y) \in \mathbb{R}^2 | x^2 + y^2 < 4\}$. *Closure of A is*

$\{(x, y) \in \mathbb{R}^2 | x^2 + y^2 > 4\}$

$\{(x, y) \in \mathbb{R}^2 | x^2 + y^2 \geqslant 4\}$

$\{(x, y) \in \mathbb{R}^2 | x^2 + y^2 \leqslant 4\}$

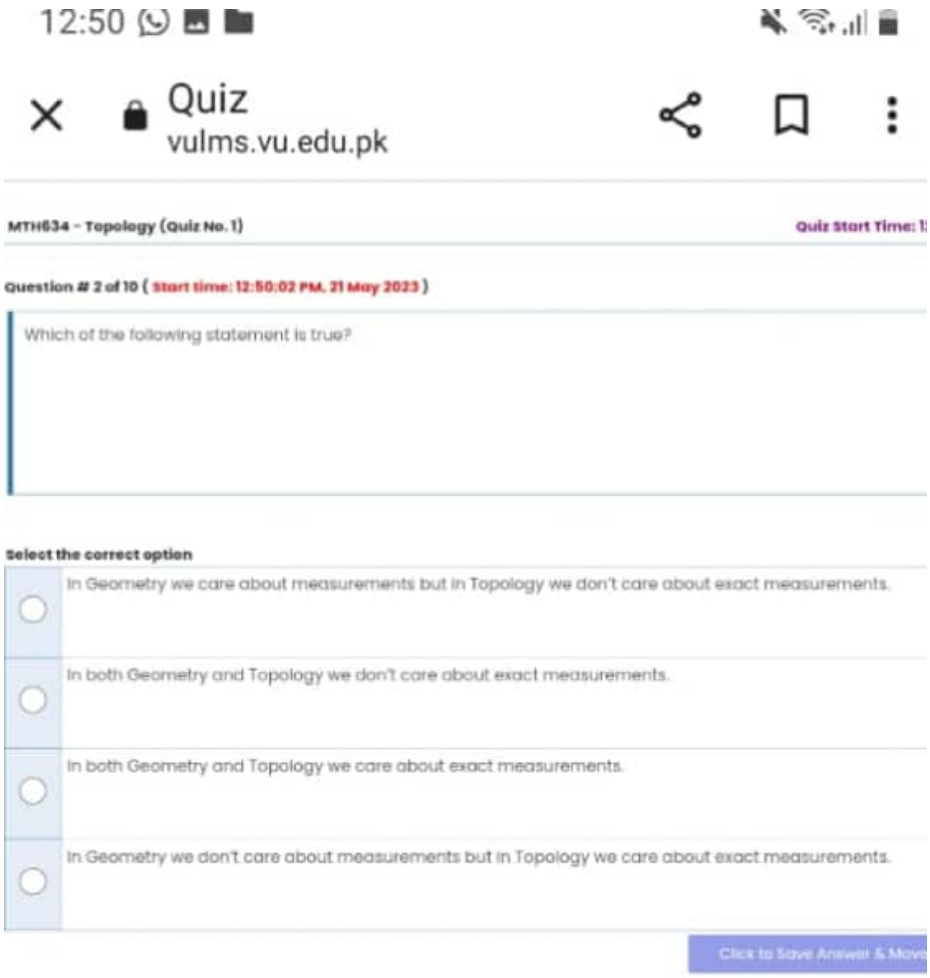
$\{(x, y) \in \mathbb{R}^2 | x^2 + y^2 = 4\}$

Let $X = R$ be a usual topology and consider $C = \{1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4} \ldots\ldots\ldots\ldots\}$ then which of the following is not limit point

Select the correct option

- 1/2
- 0
- Both (b) and (c)
- 1

Click to Save Answer & Move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MTH634 - Topology (Quiz No. 1)
Quiz Start Time:
Question # 2 of 10 (Start time: 12:50:02 PM, 21 May 2023)
Which of the following statement is true?
Select the correct option
In Geometry we care about measurements but in Topology we don't care about exact measurements.
In both Geometry and Topology we don't care about exact measurements.
In both Geometry and Topology we care about exact measurements.
In Geometry we don't care about measurements but in Topology we care about exact measurements.
Click to Save Answer & Move

Quiz
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Let X be a topological space and A, a subset of X, then

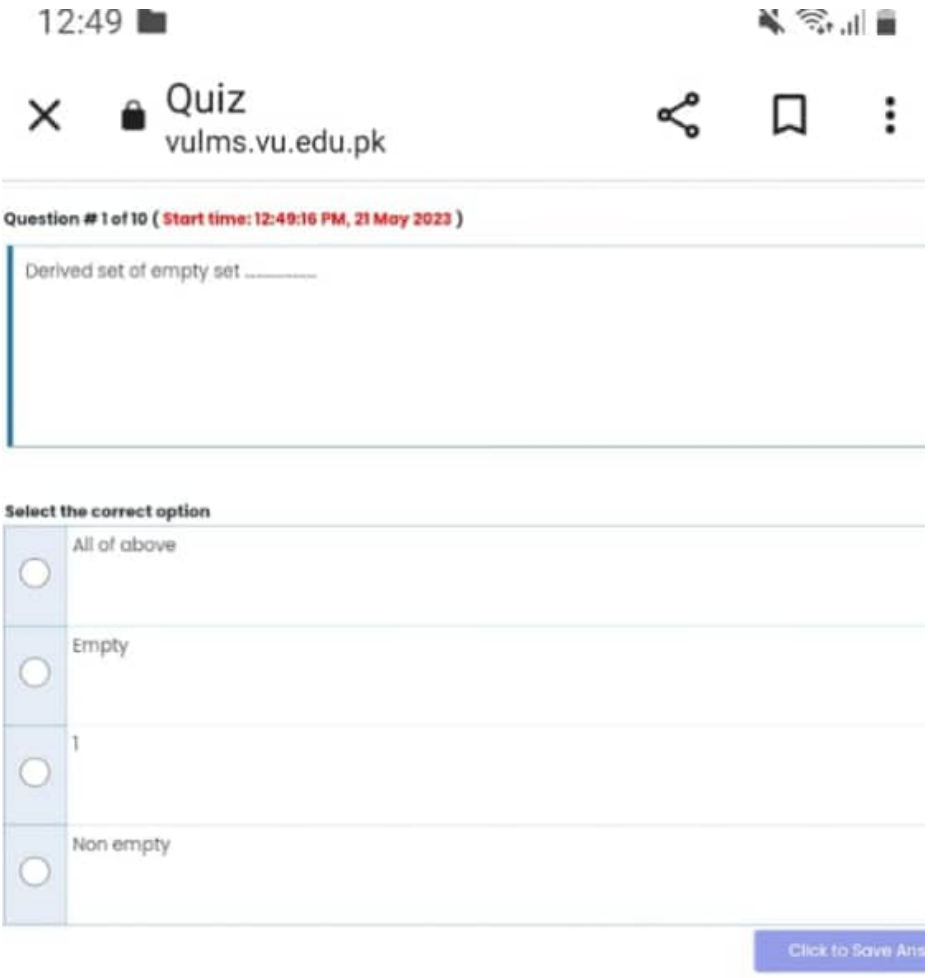
t option

$\bar{A} = A \cup A'$

$A' = A \cup \bar{A}$

$\bar{A} = A \cap A'$

Click to Save A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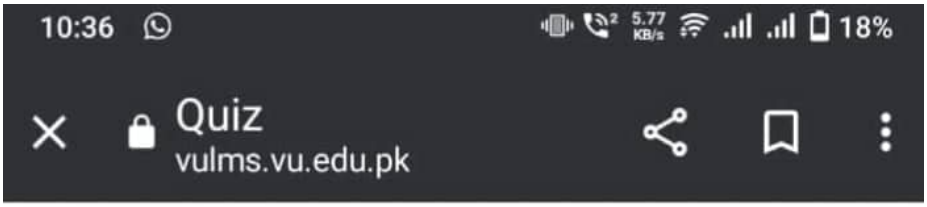
Quiz
vulms.vu.edu.pk
Question # 1 of 10 (Start time: 12:49:16 PM, 21 May 2023)
Derived set of empty set .....
Select the correct option
All of above
Empty
1
Non empty
Click to Save An



H634 - Topology (Quiz No. 1) Qu

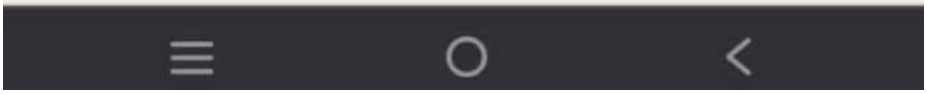
stion # 7 of 10 (Start time: 10:36:28 AM, 21 May 2023)

Which of the following is the smallest closed super set of a subset A of a topological space X?

ect the correct option

- Complement of A
- open sets of A
- Closure of a set A
- Derived set of A

Click to Save



MC210402371: HIRA REHMAN

Time Left 82 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:52 AM, 21 May 2023

Question #1 of 10 (Start time: 11:52:57 AM, 21 May 2023)

Total Marks:

The set of all open intervals of $\mathbb{R}$ is a topology on $\mathbb{R}$, called

Select the correct option

Reload Math Equations

- real topology
- cofinite topology
- usual topology
- discrete topology

Click to Save Answer & Move to Next Question

MC220201180: AZKA

Time Left 82 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:45 AM, 21 May 2023

Question # 3 of 10 (Start time: 11:47:51 AM, 21 May 2023)

Total Marks:

Finite Complement topology defined on a set "A" consist of those subsets "U" of "A" such that either Uc is finite or ___

Select the correct option

- U complement is infinite
- U=Empty Set
- U=A
- U is infinite

Click to Save Answer & Move to Next Question

MC210402371: HIRA REHMAN

Time Left 89 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:52 AM, 21 May 2023

Question # 4 of 10 (Start time: 11:56:00 AM, 21 May 2023)

Total Marks:

Let A, B be two subsets of a topological space X. Then

Select the correct option

Reload Math Equations

- $int(A \cap B) = int(A)$
- $int(A \cap B) = int(B)$
- $int(A \cap B) = int(A) \cap int(B)$
- none

Click to Save Answer & Move to Next Question

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Question # 6 of 10 (Start time: 11:37:14 AM, 21 May 2023)

A subset U of R2 is open in R2 iff it contains an ..... at each of its points.

Select the correct option

- open disk
- closed disk
- open sphere
- closed interval

0201180: AZKA

Time Left

34 - Topology (Quiz No. 1)

Quiz Start Time: 11:45 AM, 21 M

ion # 2 of 10 (Start time: 11:46:32 AM, 21 May 2023)

Total

ch of the following is the smallest closed super set of a subset A of a topological space X?

the correct option

- Closure of a set A
- Complement of A
- Derived set of A
- open sets of A

Click to Save Answer & Move to Next Ques

MC220201180: AZKA

Time Left 89 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:45 AM, 21 May 2023

Question # 4 of 10 (Start time: 11:48:42 AM, 21 May 2023)

Total Marks:

Let X={1,2,3}, then P(X)=_____

Select the correct option

Reload Math Equations

- {φ,{1},{2},{3},{1,2},{1,3},{2,3}}
- {φ,X}
- {φ,{1},{2},{3},{1,2},{1,3},{2,3},X}
- {φ,{1},{3},{1,2},{1,3},{1,2,3}}

Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start time: 11:49:54 AM, 21 May 2023) Total Marks:

Let $\langle a_1, a_2, \ldots \rangle$ be a sequence of points in an indiscrete topological space X. Then the sequence $\langle a_1, a_2, \ldots \rangle$

Select the correct option

Reload Math Equations

- is non-convergent.
- convergent to every point b belongs to X.

Click to Save Answer & Move to Next Question

MC220201180: AZKA

Time Left 82 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:45 AM, 21 May 2023

Question # 6 of 10 (Start time: 11:51:41 AM, 21 May 2023)

Total Marks:

Topology can be a useful tool in those problems where .....study is more effective.

Select the correct option

- Quantitative
- Qualitative

Click to Save Answer & Move to Next Question

MC210402371: HIRA REHMAN

Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:52 AM, 21 May 2023

Question # 5 of 10 (Start time: 11:57:33 AM, 21 May 2023)

Total Marks:

Derived set of empty set .....

Select the correct option

- All of above
- 1
- Empty
- Non empty

Click to Save Answer & Move to Next Question

MC220201180: AZKA

Time Left 80 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:45 AM, 21 May 2023

Question # 9 of 10 (Start time: 11:56:11 AM, 21 May 2023)

Total Marks:

Let X be a topological space and A , a subset of X, then

Select the correct option

Reload Math Equations

- none
- $A' = A \cup \bar{A}$
- $\bar{A} = A \cap A'$
- $\bar{A} = A \cup A'$

Click to Save Answer & Move to Next Question

MC210402371: HIRA REHMAN

Time Left 76 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:52 AM, 21 May 2023

Question # 3 of 10 (Start time: 11:54:43 AM, 21 May 2023)

Total Marks:

In a topological space, a subset of A of X closed if the compliment of A in X is open.

Select the correct option

Reload Math Equations

- True
- False

Click to Save Answer & Move to Next Question

MC220201180: AZKA

Time Left 80 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:45 AM, 21 May 2023

Question # 8 of 10 (Start time: 11:54:37 AM, 21 May 2023)

Total Marks:

Let $X = \mathbb{R}^2$ with usual topology and $A = \{(x, y) \in \mathbb{R}^2 \mid x^2 + y^2 < 4\}$. *Closure of A is*

Select the correct option

Reload Math Equations

- $\{(x, y) \in \mathbb{R}^2 \mid x^2 + y^2 \geq 4\}$
- $\{(x, y) \in \mathbb{R}^2 \mid x^2 + y^2 > 4\}$
- $\{(x, y) \in \mathbb{R}^2 \mid x^2 + y^2 \leq 4\}$
- $\{(x, y) \in \mathbb{R}^2 \mid x^2 + y^2 = 4\}$

Click to Save Answer & Move to Next Question

MC220201180: AZKA

Time Left 76 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:45 AM, 21 May 2023

Question # 7 of 10 (Start time: 11:53:04 AM, 21 May 2023)

Total Marks:

Topology means the study of something with respect to its ____

Select the correct option

- area
- volume
- perimeter
- place

Click to Save Answer & Move to Next Question

MC220201180: AZKA

Time Left 83 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 11:45 AM, 21 May 2023

Question # 1 of 10 (Start time: 11:45:09 AM, 21 May 2023)

Total Marks:

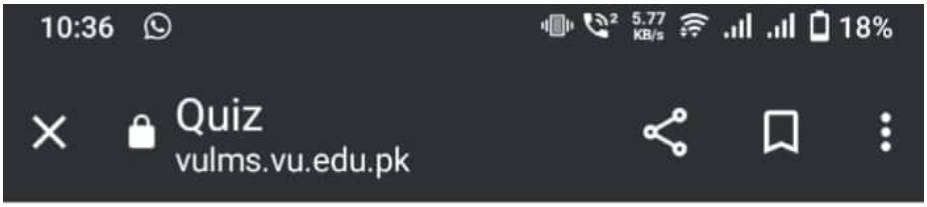
Let $X = \{a, b, c, d\}$. *The following set represents a topology on* X.

Select the correct option

Reload Math Equations

- $\{\varphi, \{a\}, \{a,b\}, X\}$
- $\{\varphi, \{a\}, \{b,c\}, X\}$
- $\{\varphi, \{a\}, \{b\}, X\}$
- $\{\varphi, \{c\}, \{a,b\}, X\}$

Click to Save Answer & Move to Next Question



H634 - Topology (Quiz No. 1) Qu

estion # 7 of 10 (Start time: 10:36:28 AM, 21 May 2023)

Which of the following is the smallest closed super set of a subset A of a topological space X?

ect the correct option

- Complement of A
- open sets of A
- Closure of a set A
- Derived set of A

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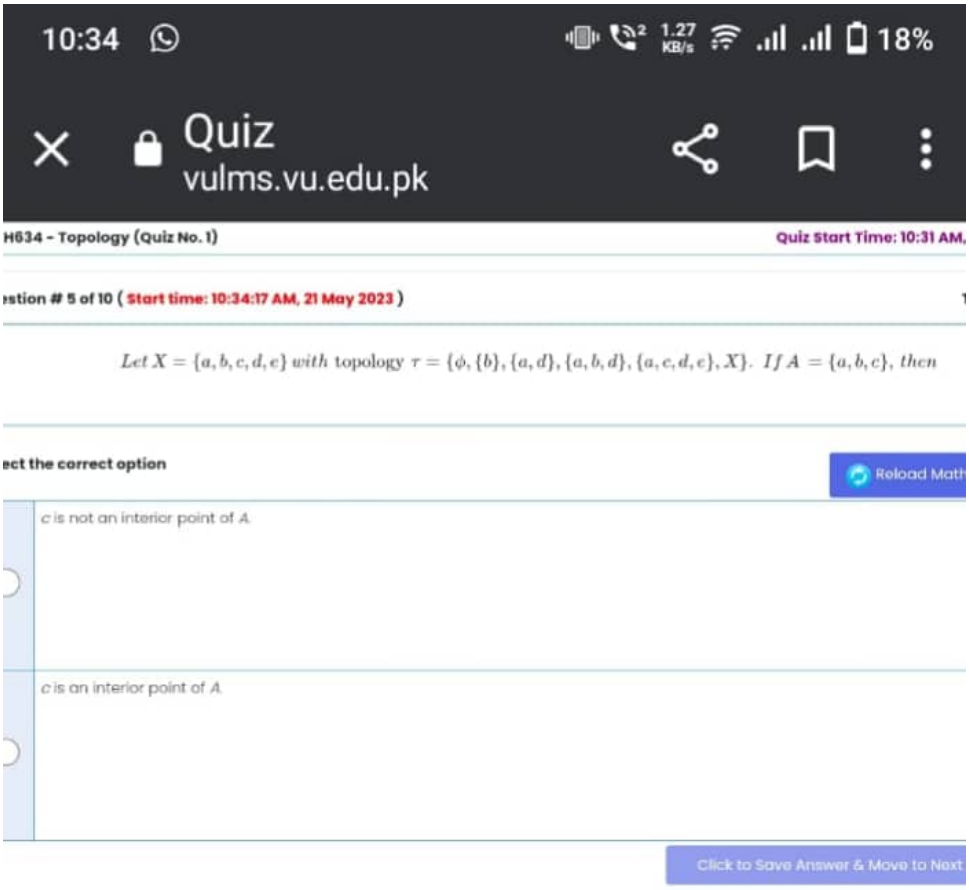
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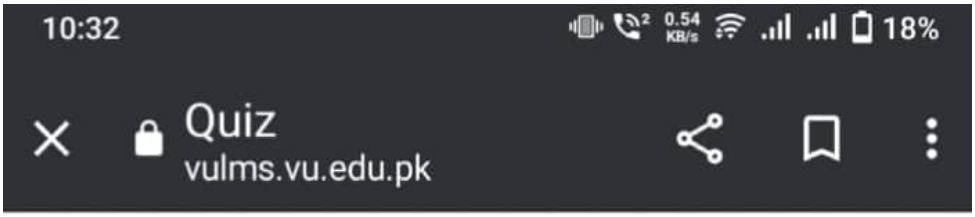
H634 - Topology (Quiz No. 1)
Quiz Start Time: 10:31 AM,
stion # 5 of 10 (Start time: 10:34:17 AM, 21 May 2023)
Let $X = \{a, b, c, d, e\}$ with topology $\tau = \{\phi, \{b\}, \{a, d\}, \{a, b, d\}, \{a, c, d, e\}, X\}$. If $A = \{a, b, c\}$, then
ect the correct option
Reload Math
c is not an interior point of A
c is an interior point of A
Click to Save Answer & Move to Next



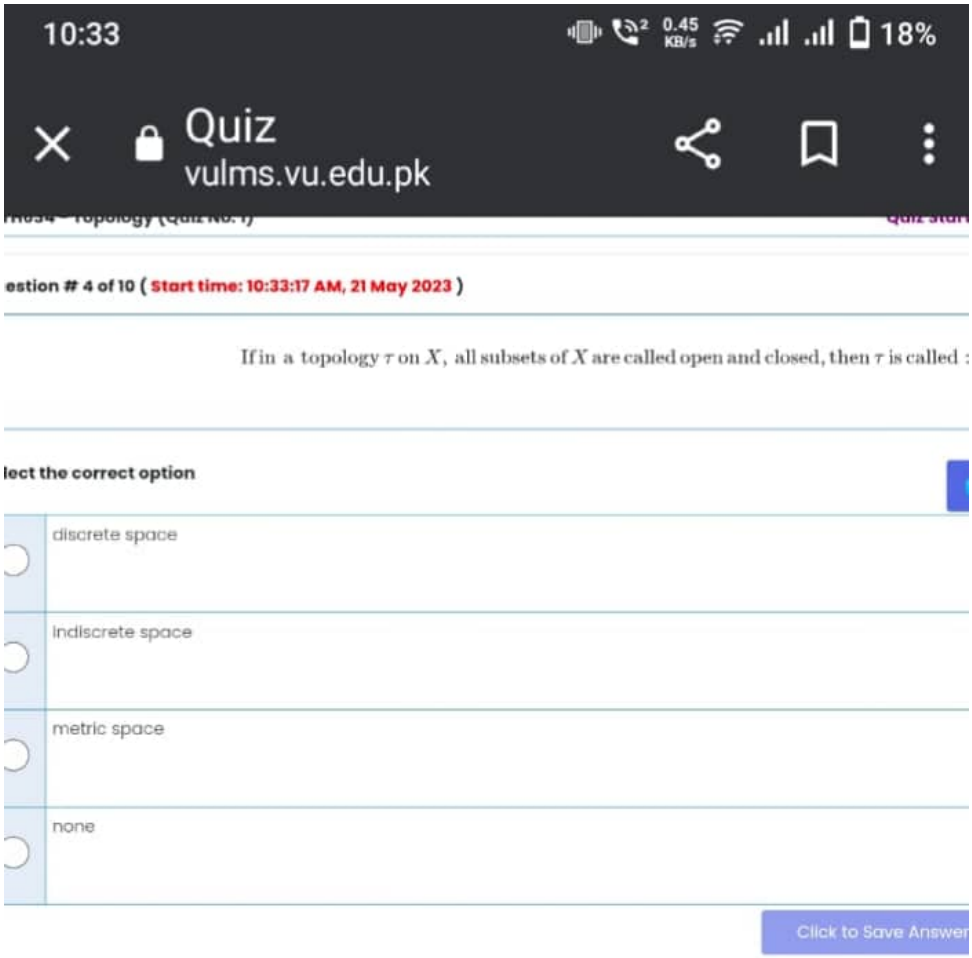
estion # 3 of 10 (Start time: 10:32:26 AM, 21 May 2023)

Let $\{T_i | i \in I\}$ *be any collection of topologies on set* X. *Then* $\bigcap_{i \in I} T_i$ *is* :

ect the correct option

- empty
- a topology
- empty set
- not a topology

Click to Save Answe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Quiz
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estion # 4 of 10 (Start time: 10:33:17 AM, 21 May 2023)
If in a topology τ on X, all subsets of X are called open and closed, then τ is called :
lect the correct option
discrete space
indiscrete space
metric space
none
Click to Save Answer

In a topological space, the interior of a set A is the union of all

Select the correct option

- ○ closed subsets of A
- ○ open subsets of A

Question # 5 of 10 (Start time: 02:12:04 PM, 21 May 2023)

If τ is a topology on a non empty set X, then ..... of finite members of τ belongs to τ.

Select the correct option

- intersection
- union

Type here to search

Question # 9 of 10 (Start time: 02:16:53 PM, 21 May 2021

Closure of A is the smallest closed superset of A.

Select the correct option

- True
- False

Which of the following is the smallest closed super set of a subset A of a topological space X?

Select the correct option

- ○ open sets of A
- ○ Derived set of A
- ○ Complement of A
- ○ Closure of a set A

Question # 8 of 10 (Start time: 02:15:20 PM, 21 May 2023)

If X is a finite set then co-finite topology on X is .....

Select the correct option

- ○ none of these
- ○ indiscrete topology
- ○ discrete topology
- ○ lower limit topology

Type here to search

Which of the following represents an open interval on real line R?

Select the correct option

- $\{x|a \leq x \leq b\}$ *where* $a, b \in R$ *with usual order* $a < b$
- $\{x|a < x < b\}$ *where* $a, b \in R$ *with usual order* $a < b$
- $\{x|a \leq x < b\}$ *where* $a, b \in R$ *with usual order* $a < b$
- $\{x|a < x \leq b\}$ *where* $a, b \in R$ *with usual order* $a < b$

Click to Save

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37°C Sunny

The collection τ of subsets of X consisting of the empty set ϕ and all subsets of X whose complements are finite is called :

Select the correct option

- indiscrete topology
- discrete topology
- cofinite topology
- none

MTH634 - Topology (Quiz No. 1)

Question # 3 of 10 (Start time: 02:09:10 PM, 21 May 2023)

Let A, B be two subsets of a topological space X.

Select the correct option

○	If $A \subset B$, then $Int(A) = Int(B)$.
○	none
○	If $A \subset B$, then $Int(A) \subset Int(B)$.
○	If $A \subset B$, then $Int(B) \subset Int(A)$.

MTH634 - Topology (Quiz No. 1)

Question # 2 of 10 (Start time: 02:07:42 PM, 21 May 2023)

A subset A of a topological space X is closed if and only if .....

Select the correct option

○	$A' \subset A$
○	$A = A^c$
○	$A' = A^c$
○	$A \supset A'$

Question # 2 of 10 (Start time: 01:46:20 PM, 21 May 2023)

$\bigcap_{n \in N}\left(-\frac{1}{n}, \frac{1}{n}\right) =$ ....., where N stands for set of natural numbers

Select the correct option

- {0}
- {}
- {-infinity, +infinity}
- {-1,1}

Click to Save Ans

Question # 1 of 10 (Start time: 02:07:05 PM, 21 May 2023)

Topology means the study of something with respect to its .....

Select the correct option

- area
- perimeter
- place
- volume

Question # 1 of 10 (Start time: 01:45:24 PM, 21 May 2023)

Let $X = R$ be a usual topology and consider $C = \{1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \ldots\ldots\ldots\ldots\}$ then which of the following is not li

Select the correct option

- Both (b) and (c)
- 1/2
- 1
- 0

Click to Save Answe

2:59

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BC220405628: HUBA HASHMI

MTH634 - Topology (Quiz No. 1)

Question # 8 of 10 (Start time: 02:58:39 PM, 21 May 2023)

A subset A of a topological space X is closed if and only if ___

Select the correct option

- $A \supset A'$
- $A' = A^c$
- $A = A^c$
- $A' \subset A$

Click to Sa

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C220405628: HUBA HASHMI

TH634 - Topology (Quiz No. 1)

Quiz Start Time: 02:50

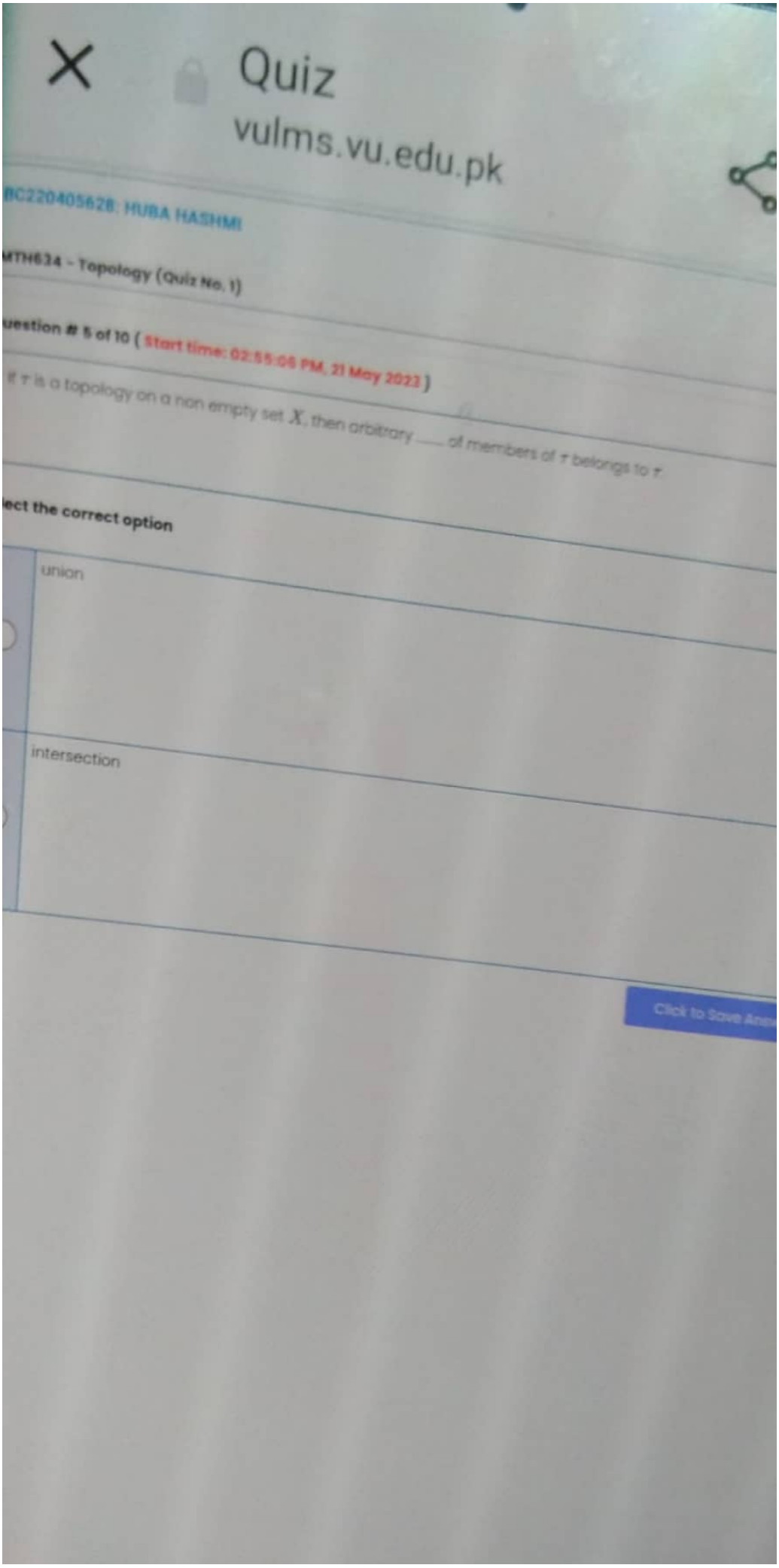
uestion # 7 of 10 (Start time: 02:57:14 PM, 21 May 2023)

Closure of a subset A of a topological space X is the intersection of all ..... of X containing A.

lect the correct option

- subsets
- open subsets
- none of these
- closed subsets

Click to Save Answer & Move to Ne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BC220405628: HUBA HASHMI
MTH624 - Topology (Quiz No. 1)
uestion # 5 of 10 (Start time: 02:55:06 PM, 21 May 2022)
If τ is a topology on a non empty set X, then arbitrary ___ of members of τ belongs to τ
ect the correct option
union
intersection
Click to Save Ans

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BC220405628: HUBA HASHMI

MTH634 - Topology (Quiz No. 1)

Question # 4 of 10 (Start time: 02:54:13 PM, 21 May 2022)

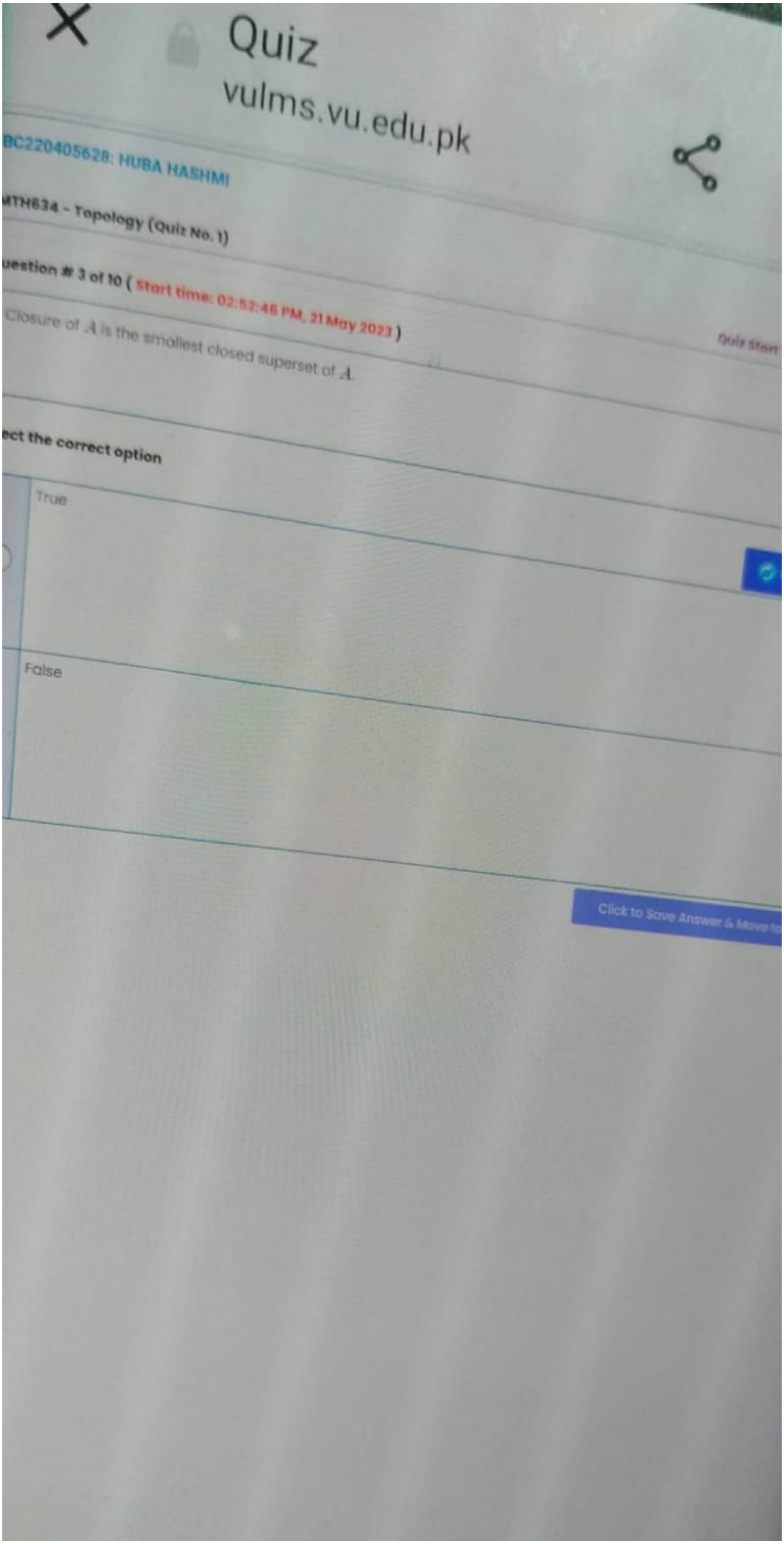
Quiz Start Time

Let X be a topological space and A , a subset of X, then

elect the correct option

- $\bar{A} = A \cap A'$
- $A' = A \cup \bar{A}$
- $\bar{A} = A \cup A'$
- none

Click to Save Answer & Move to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BC220405628: HUBA HASHMI
MTH634 - Topology (Quiz No. 1)
uestion # 3 of 10 (Start time: 02:52:46 PM, 21 May 2023)
Closure of A is the smallest closed superset of A
ect the correct option
True
False
Click to Save Answer & Move to

MTH603_1 (1).pdf

ion.aspx?ver=c4976f07-3d15-4dba-beea-e5819d7ac850

ay 2023)

An open disk in R^2 (Real plane) centered at $(x, y) \in R^2$, is the set of all points $(x', y') \in R^2$ such that

$\{(x', y') | \sqrt{(x - x')^2 + (y - y')^2} < r$, where r is a positive real number$\}$

$\{(x', y') | \sqrt{(x - x')^2 + (y - y')^2} a \leq r$, where r is a positive real number$\}$

$\{(x', y') | \sqrt{(x - x')^2 + (y - y')^2} > r$, where r is a positive real number$\}$

$\{(x', y') | \sqrt{(x - x')^2 + (y - y')^2} = r$, where r is a positive real number$\}$

2:52

Quiz

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BC220405628: HUBA HASHMI

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 02:50 PM

Question # 2 of 10 (Start time: 02:51:53 PM, 21 May 2023)

Let $X = \mathbb{R}$ with usual topology and $A = (0, 3)$. *The limit point of* A is:

Select the correct option

Reload Math fo

- 5
- 1.5
- -0.5
- 4

Click to Save Answer & Move to Next Que

Quiz

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BC220405628: HUBA HASHMI

MTH634 - Topology (Quiz No. 1)

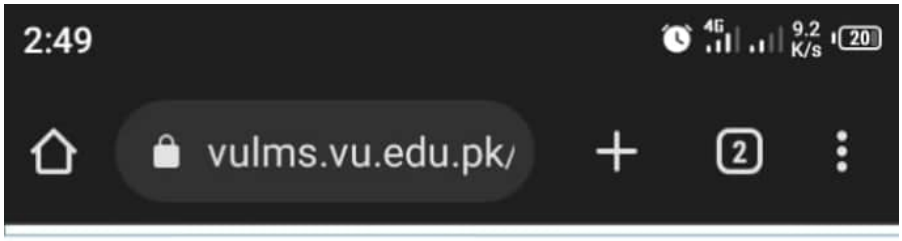
Question # 1 of 10 (Start time: 02:50:58 PM, 21 May 2023)

Let A, B be two subsets of a topological space X. Then

Select the correct option

- $Int(A \cup B) \subset Int(A) \cup Int(B)$
- $Int(A) \cup Int(B) \subset Int(A \cup B)$

Click



Question # 10 of 10 (Start time: 02:48:58 PM, 21 May 2023)

Let $X = \{1, 2, 3\}$ and $\tau = \{\phi, \{1\}, \{2\}, \{1, 2\}, X\}$ then (X, τ) as a pair will be called .....

Select the correct option

- Discrete topology
- None of these
- Indiscrete topology
- Topological space

Click to Save Answer

MTH634 - Topology (Quiz No. 1) Quiz Start Time:

Question # 9 of 10 (Start time: 02:47:56 PM, 21 May 2023)

If in a topology τ on X, all subsets of X are called open and closed, then τ is called :

Select the correct option

- discrete space
- metric space
- none
- indiscrete space

Click to Save Answer & Mo

Question # 8 of 10 (Start time: 02:47:16 PM, 21 May 2023)

Topology means the study of something with respect to its .....

Select the correct option

- place
- volume
- area
- perimeter

Click to Save Answer & Move to

Question # 7 of 10 (Start time: 02:46:34 PM, 21 May 2023)

_____ of a subset A of a topological space (X, τ) is the set of all limit points of A.

Select the correct option

- Proper Set
- Super Set
- Derived Set
- All of above

Click to Save Answer &

Question # 6 of 10 (Start time: 02:45:43 PM, 21 May 2023)

In a topological space, the interior of a set A is the union of all

Select the correct option

○	open subsets of A
○	closed subsets of A

MTH634 - Topology (Quiz No. 1)

Question # 5 of 10 (Start time: 02:44:55 PM, 21 May 2023)

Which of the following statement is true?

Select the correct option

- In Geometry we care about measurements but in Topology we don't care about exact measurem
- In both Geometry and Topology we don't care about exact measurements.
- In both Geometry and Topology we care about exact measurements.
- In Geometry we don't care about measurements but in Topology we care about exact measurem

Click to

Question # 4 of 10 (Start time: 02:44:00 PM, 21 May 2023)

Let $X = \{a, b, c, d\}$. *The following set is a topology on* X.

Select the correct option

- {φ,{a},{b},X}
- none
- {φ,{a},{b},{c},X}
- {φ,{c,d},{b,c,d},X}

Click to Save An

Question # 2 of 10 (Start time: 02:41:11 PM, 21 May 2023)

If X is a finite set then co-finite topology on X is _____

Select the correct option

- none of these
- lower limit topology
- indiscrete topology
- discrete topology

Click to Save A

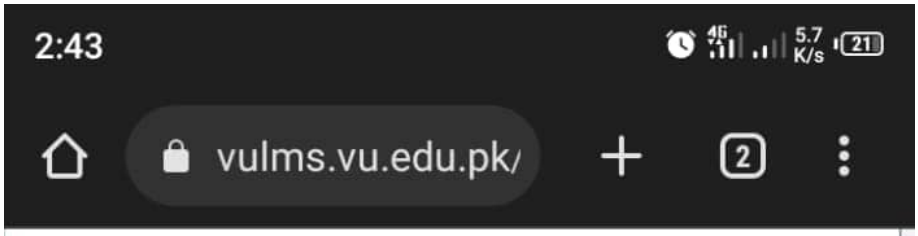
Question # 1 of 10 (Start time: 02:39:24 PM, 21 May 2023)

The trivial topology is also called:

Select the correct option

- Indiscrete topology
- Complete topology
- Discrete topology
- none

Click to Sa



MTH634 - Topology (Quiz No. 1) Quiz Start Time: 02:39

Question # 3 of 10 (Start time: 02:43:06 PM, 21 May 2023)

If X=R with usual Topology and consider B= {1/n where n belongs to the set of Natural numbers}, then the limit point of B is ____

Select the correct option

- 0
- 1
- 1/2
- 1/3

Click to Save Answer & Move to N

Question # 9 of 10 (Start time: 02:36:19 PM, 21 May 2023)

Let (X, τ) be the topological space and $A, B \subset X$,If $A \subset B$ then:

Select the correct option

- $A \subset B$
- None of above
- $\bar{A} \subset B$
- $\bar{A} \subset \bar{B}$

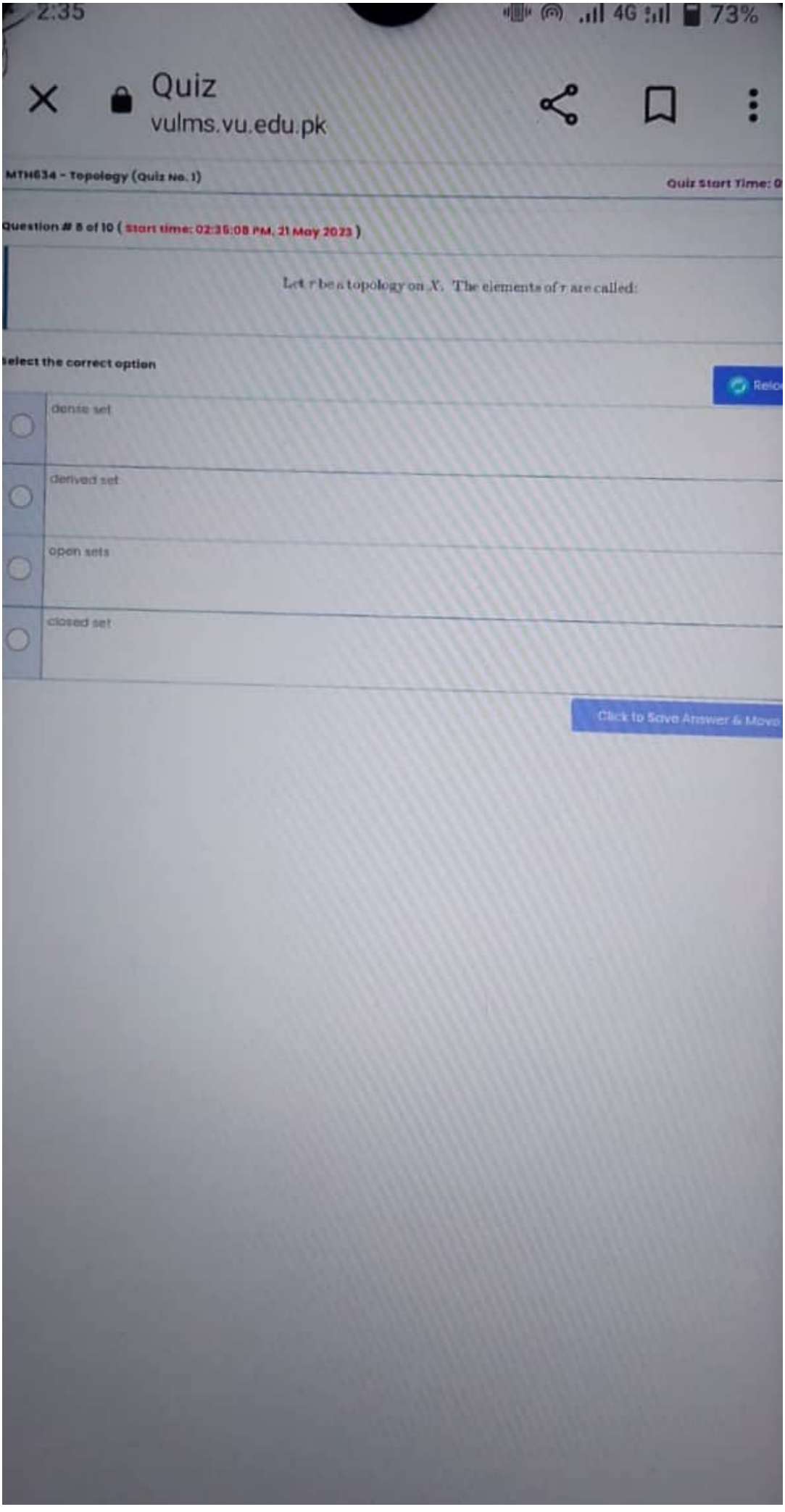
MTH634 - Topology (Quiz No. 1)

Question # 10 of 10 (Start time: 02:37:04 PM, 21 May 2023)

Every open subset of the real line is a union of disjoint ____

Select the correct option

- Sets
- Closed Intervals
- Open Intervals
- Semi Open Intervals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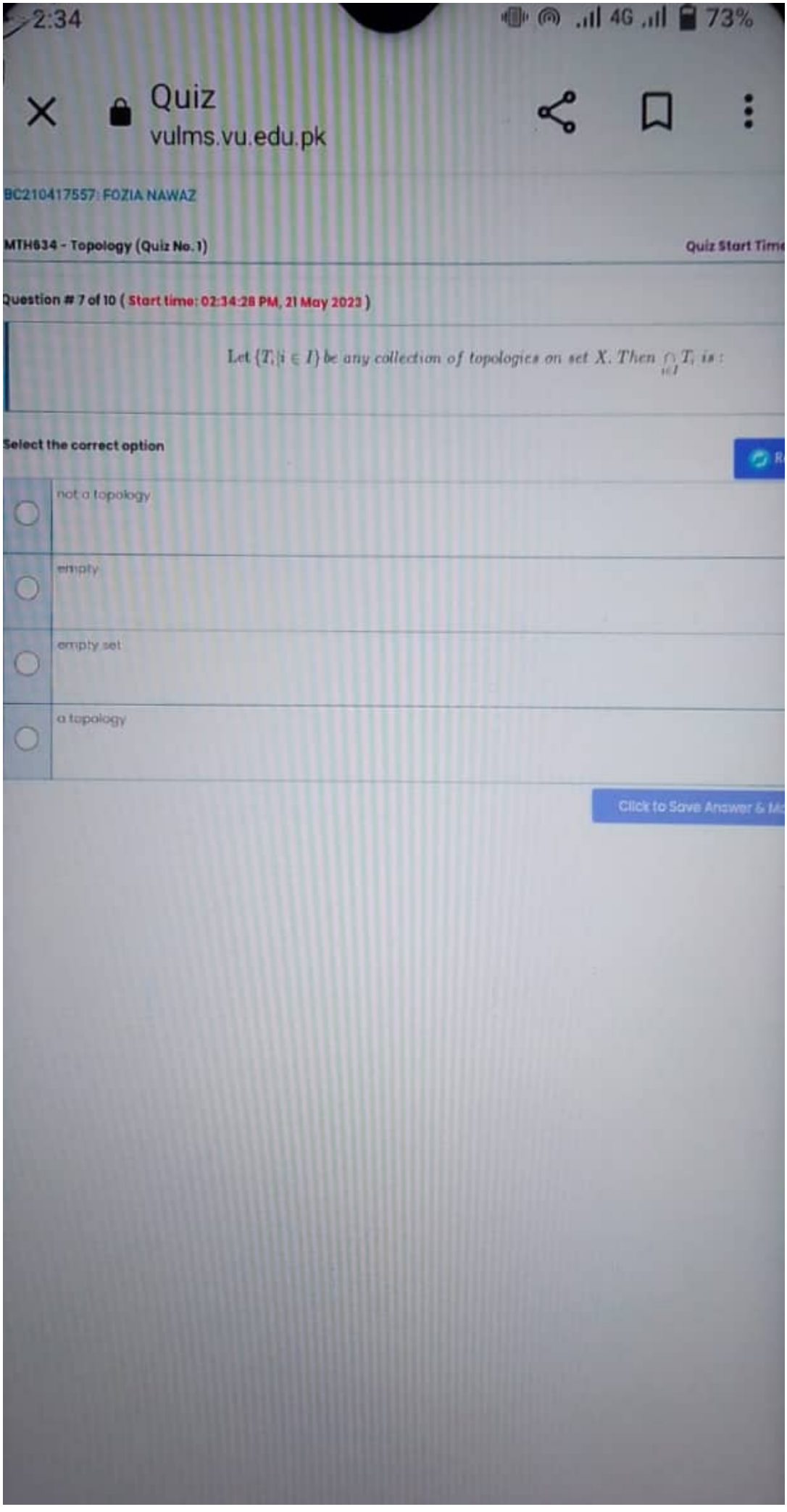
MTH634 - Topology (Quiz No. 1)
Quiz Start Time: 0
Question # 8 of 10 (Start time: 02:35:08 PM, 21 May 2023)
Let τ be a topology on X. The elements of τ are called:
elect the correct option
dense set
derived set
open sets
closed set
Click to Save Answer & Move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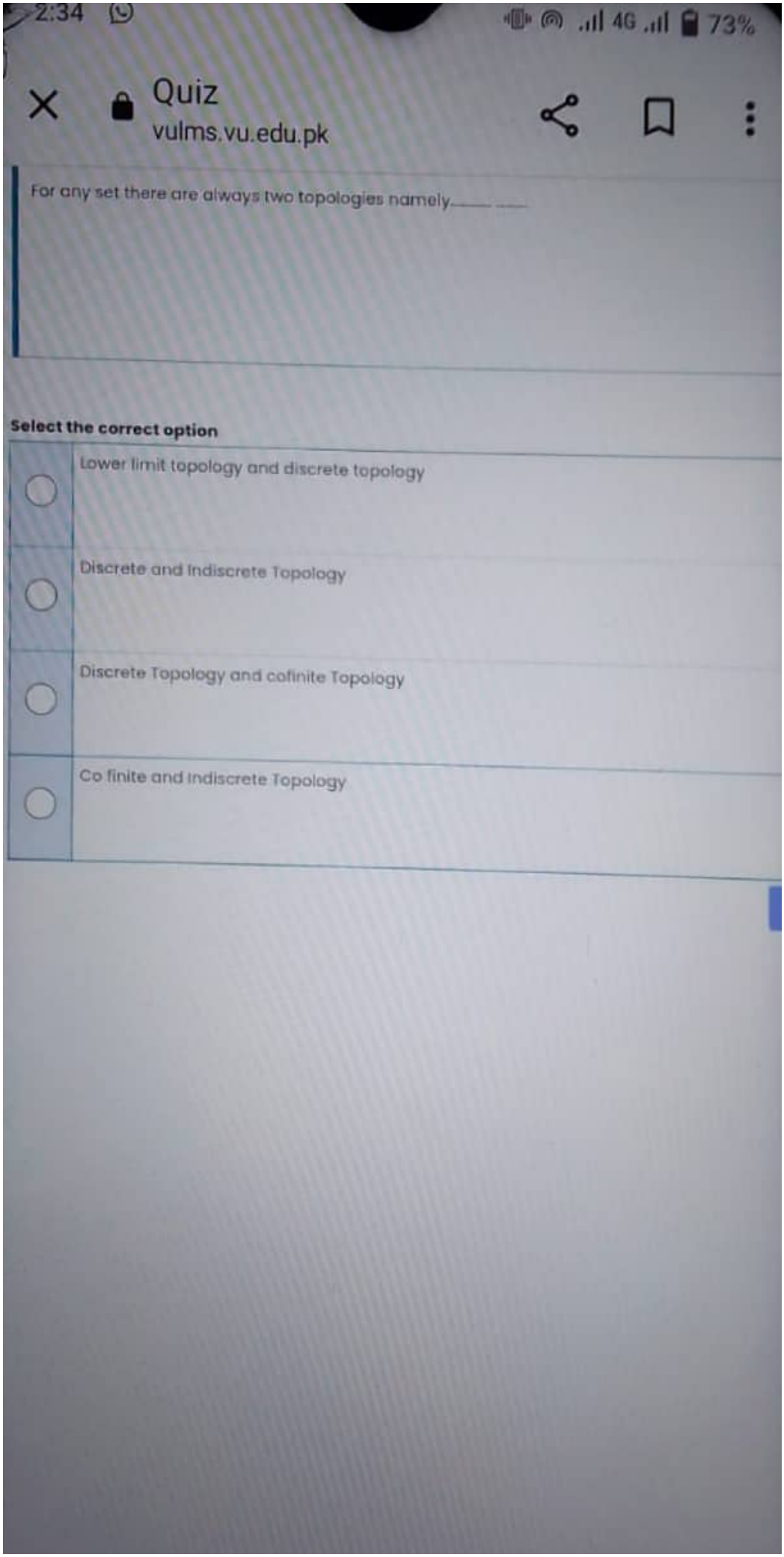
BC210417557: FOZIA NAWAZ
MTH634 - Topology (Quiz No. 1)
Quiz Start Time
Question # 7 of 10 (Start time: 02:34:28 PM, 21 May 2023)
Let $\{T_i | i \in I\}$ be any collection of topologies on set X. Then $\bigcap_{i \in I} T_i$ is :
Select the correct option
not a topology
empty
empty set
a topology
Click to Save Answer & M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For any set there are always two topologies namely_____ _____
Select the correct option
Lower limit topology and discrete topology
Discrete and Indiscrete Topology
Discrete Topology and cofinite Topology
Co finite and Indiscrete Topology

Question # 5 of 10 (Start time: 02:33:36 PM, 21 May 2023)

The interior of the four intervals $[a,b]$, (a,b), $(a,b]$, $[a,b)$ is

Select the correct option

- [a,b]
- (a,b)

BC200407084: MALAIKA NASIR KAYANI

Time Left 88 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 02:18 PM, 21 May 2023

Question # 6 of 10 (Start time: 02:23:32 PM, 21 May 2023)

Total Marks: 1

Let $X = \{a, b, c, d, e\}$ with topology $\tau = \{\phi, \{b\}, \{a, d\}, \{a, b, d\}, \{a, c, d, e\}, X\}$. If $A = \{a, b, c\}$, then

Select the correct option

Reload Math Equations

- a is an interior point of A.
- a is not an interior point of A.

Click to Save Answer & Move to Next Question

Let X={1,2,3}, then P(X)=_____

Select the correct option

○	{φ,{1},{3},{1,2},{1,3},{1,2,3}}
○	{φ,{1},{2},{3},{1,2},{1,3},{2,3}}
○	{φ,X}
○	{φ,{1},{2},{3},{1,2},{1,3},{2,3},X}

Let $X = \{a, b, c, d\}$. *The following set is a topology on* X.

Select the correct option

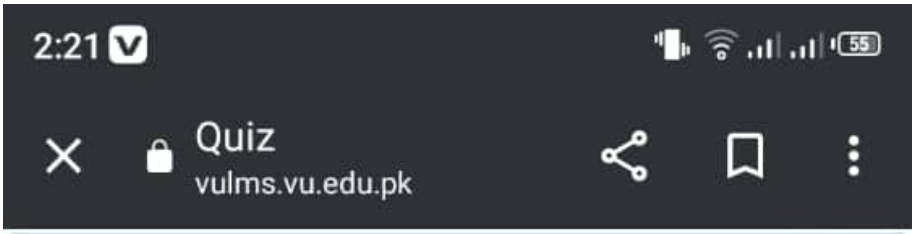
○	none
○	{ø,{a},{b},X}
○	{ø,{c,d},{b,c,d},X}
○	{ø,{a},{b},{c},X}

Let X be a topological space and A, a subset of X, then

$$\bar{A} = A \cap A'$$

$$A' = A \cup \bar{A}$$

$$\bar{A} = A \cup A'$$



BC220414840: MUNAZZA BUTT

Time Left 82 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 02:18 PM, 21 May 2023

Question # 6 of 10 (Start time: 02:20:58 PM, 21 May 2023)

Total Marks: 1

Which of the following statement is not true ?

Select the correct option

- Discrete topology is finer than the indiscrete topology defined on the same non empty set.
- Indiscrete topology is weaker than any other topology defined on the same non empty set.
- Discrete topology is finer than any other topology defined on the same non empty set.
- Indiscrete topology is finer than any other topology defined on the same non empty set.

Click to Save Answer & Move to Next Question

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BC210417557: FOZIA NAWAZ

MTH634 - Topology (Quiz No. 1) Quiz Start Time: 02

Question # 2 of 10 (Start time: 02:24:55 PM, 21 May 2023)

Let A be a subset of topological space (X, τ), then A is dense in X if $\bar{A} = X$.

Select the correct option

Reload

False

True

Click to Save Answer & Move to

Union of topologies on a set X is :

Select the correct option

- ○ a topology
- ○ not a topology
- ○ may or may not be a topology
- ○ none

BC210417557: FOZIA NAWAZ

MTH634 - Topology (Quiz No. 1)

Question # 3 of 10 (Start time: 02:25:51 PM, 21 May 2023)

Let $X = \{1, 2, 3\}$ and $\tau = \{\phi, \{1\}, \{2\}, \{1, 2\}, X\}$ then (X, τ) as a pair will be called ____

Select the correct option

- Indiscrete topology
- Topological space
- Discrete topology
- None of these

Let $X = R$ with usual topology and $A = (0, 4)$ then the limit point of A is:

Select the correct option

- ○ 6
- ○ 5
- ○ -2
- ○ 2

Type here to search

Let $X = \mathbb{R}$ with usual topology and $B = [1, 2)$. Then interior of a set B is

lect the correct option

- 3/2
- none
- 1
- 2

Let τ be a topology on X. The elements of τ are called:

lect the correct option

- dense set
- open sets
- derived set
- closed set

Type here to search

$$\bigcap_{n \in N} \left(-\frac{1}{n}, \frac{1}{n} \right) = \ldots\ldots\ldots,$$ where N stands for set of natural numbers

Select the correct option

- {-1,1}
- {}
- {0}
- {-infinity, +infinity}

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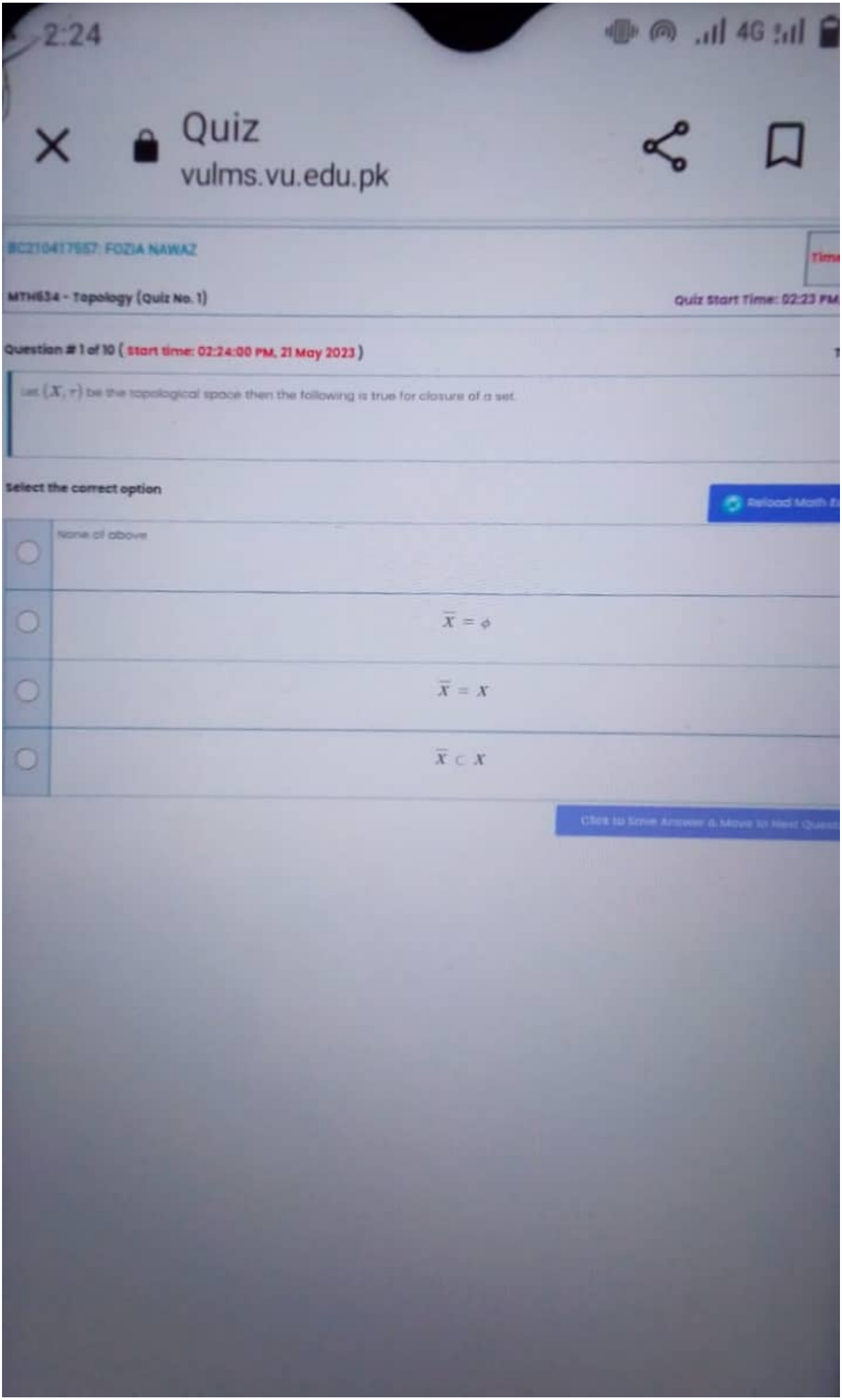
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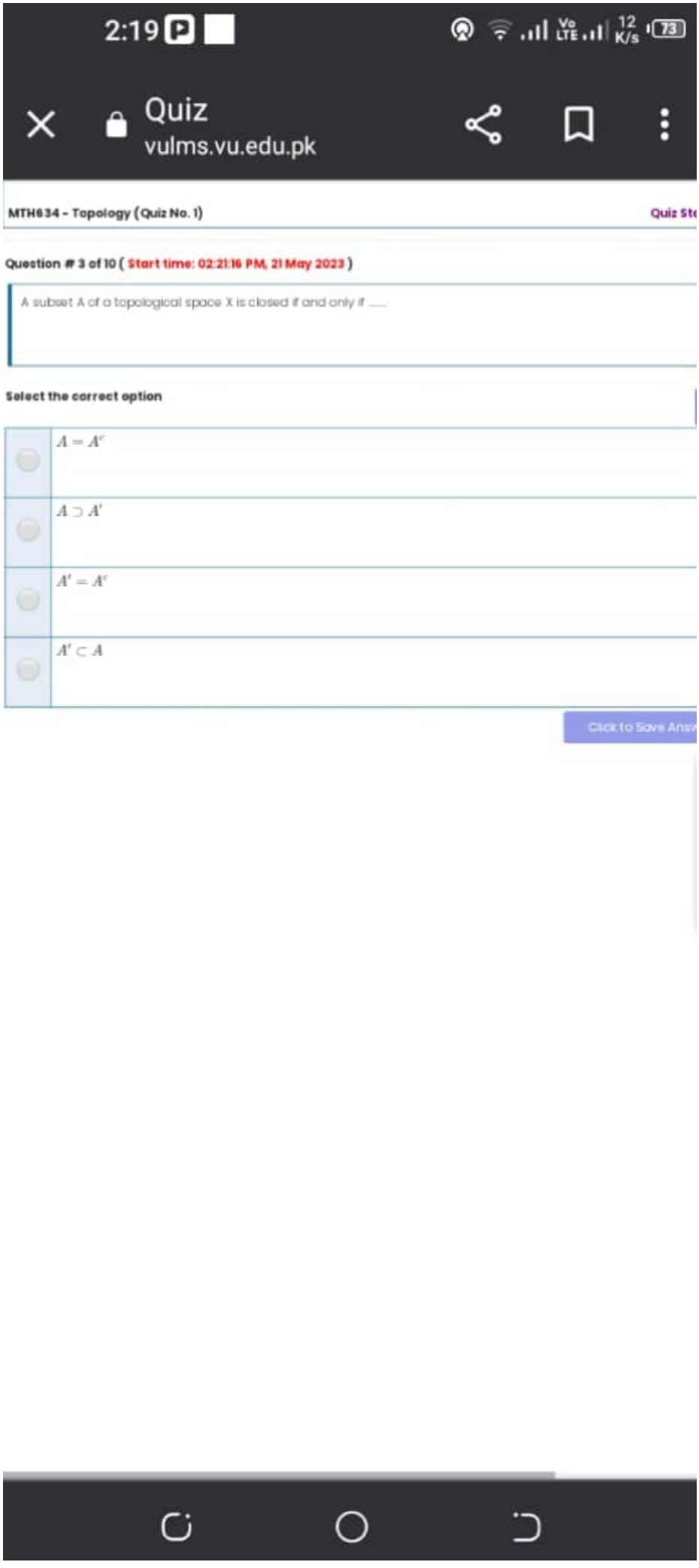
BCZ104177557: FOZIA NAWAZ
MTH634 - Topology (Quiz No. 1)
Quiz Start Time: 02:23 PM
Question # 1 of 10 (Start time: 02:24:00 PM, 21 May 2023)
Let (X, τ) be the topological space then the following is true for closure of a set
Select the correct option
None of above
$\overline{X} = \phi$
$\overline{X} = X$
$\overline{X} \subset X$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MTH634 - Topology (Quiz No. 1)
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Question # 3 of 10 (Start time: 02:21:16 PM, 21 May 2023)
A subset A of a topological space X is closed if and only if .....
Select the correct option
$A = A^c$
$A \supset A'$
$A' = A^c$
$A' \subset A$
Click to Save Answ

BC200407084: MALAIKA NASIR KAYANI

Time Left 87 sec(s)

MTH634 - Topology (Quiz No. 1)

Quiz Start Time: 02:18 PM, 21 May 2023

Question # 2 of 10 (Start time: 02:18:59 PM, 21 May 2023)

Total Marks: 1

Let $X = \{a, b, c, d, e\}$ with topology $T = \{\phi, \{b\}, \{a, d\}, \{a, b, d\}, \{a, c, d, e\}, X\}$. The interior point of $A = \{a, b, c\}$ is:

Select the correct option

Reload Math Equations

d

b

a

c

Click to Save Answer & Move to Next Question

In a topological space, the interior of a set A is the union of all

Select the correct option

- ○ closed subsets of A
- ○ open subsets of A

Question # 5 of 10 (Start time: 02:12:04 PM, 21 May 2023)

If τ is a topology on a non empty set X, then ..... of finite members of τ belongs to τ.

Select the correct option

- intersection
- union

Type here to search

Which of the following represents an open interval on real line R?

Select the correct option

- $\{x|a \leq x \leq b\}$ *where* $a, b \in R$ *with usual order* $a < b$
- $\{x|a < x < b\}$ *where* $a, b \in R$ *with usual order* $a < b$
- $\{x|a \leq x < b\}$ *where* $a, b \in R$ *with usual order* $a < b$
- $\{x|a < x \leq b\}$ *where* $a, b \in R$ *with usual order* $a < b$

Click to Save

Type here to search

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Question # 9 of 10 (Start time: 02:16:53 PM, 21 May 2021

Closure of A is the smallest closed superset of A.

Select the correct option

- True
- False

Which of the following is the smallest closed super set of a subset A of a topological space X?

Select the correct option

- ○ open sets of A
- ○ Derived set of A
- ○ Complement of A
- ○ Closure of a set A

Question # 8 of 10 (Start time: 02:15:20 PM, 21 May 2023)

If X is a finite set then co-finite topology on X is .....

Select the correct option

- ○ none of these
- ○ indiscrete topology
- ○ discrete topology
- ○ lower limit topology

Type here to search

The collection τ of subsets of X consisting of the empty set ϕ and all subsets of X whose complements are finite is called :

Select the correct option

- indiscrete topology
- discrete topology
- cofinite topology
- none

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Question # 3 of 10 (Start time: 02:09:10 PM, 21 May 2023)

Let A, B be two subsets of a topological space X.

Select the correct option

○	If $A \subset B$, then $Int(A) = Int(B)$.
○	none
○	If $A \subset B$, then $Int(A) \subset Int(B)$.
○	If $A \subset B$, then $Int(B) \subset Int(A)$.

Question # 1 of 10 (Start time: 02:07:05 PM, 21 May 2023)

Topology means the study of something with respect to its .....

Select the correct option

- area
- perimeter
- place
- volume

Question # 2 of 10 (Start time: 01:46:20 PM, 21 May 2023)

$\bigcap_{n \in N}\left(-\frac{1}{n}, \frac{1}{n}\right) =$ ....., where N stands for set of natural numbers

Select the correct option

- {0}
- {}
- {-infinity, +infinity}
- {-1,1}

Click to Save Ans

Question # 1 of 10 (Start time: 01:45:24 PM, 21 May 2023)

Let $X = R$ be a usual topology and consider $C = \{1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \ldots\ldots\ldots\ldots\}$ then which of the following is not li

Select the correct option

- Both (b) and (c)
- 1/2
- 1
- 0

Click to Save Answe

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Question # 2 of 10 (Start time: 02:07:42 PM, 21 May 2023)

A subset A of a topological space X is closed if and only if .....

Select the correct option

○	$A' \subset A$
○	$A = A^c$
○	$A' = A^c$
○	$A \supset A'$