MC170201745: Shakeel Ahmad

Time Left 21 sec(s)

MTH634:Quiz 1

Quiz Start Time: 08:09 AM, 20 May 2018

Question # 1 of 6 (Start time: 08:09:38 AM, 20 May 2018) Total Marks: 1

Let $X = \{a, b, c, d\}$ *and* $\tau = \{\phi, \{c\}, \{a, c\}, \{b, c, d\}, X\}$ *be a topology on* X. The closed set in X is:

Select the correct option

Reload Math Equations

- (●) {b,d}
- ( ) {c}
- ( ) {d}
- ( ) none

Click to Save Answer & Move to Next Question

MC170201745: Shakeel Ahmad

Time Left 67 sec(s)

MTH634:Quiz 1

Quiz Start Time: 08:09 AM, 20 May 2018

Question # 5 of 6 (Start time: 08:12:43 AM, 20 May 2018)

Total Marks: 1

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

Reload Math Equations

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

Click to Save Answer & Move to Next Question

MC170203179: Zeshan Rafiq

Time Left 61 sec(s)

MTH634:Quiz 1

Quiz Start Time: 10:16 PM, 22 May 2018

Question # 2 of 6 (Start time: 10:17:00 PM, 22 May 2018)

Total Marks: 1

Let X be a nonempty set and τ be a topology on X, then the following statements must be true. $(where\ P(X)\ denotes$ the power set of $X)$

Select the correct option

Reload Math Equations

- ○ $\tau \subset X$
- ○ $X \subset \tau$
- ● $\tau \subset P(X)$
- ○ none

Click to Save Answer & Move to Next Question

MC170202886: Aqsa Zunaira

Time Left 68 sec(s)

MTH634:Quiz 1

Quiz Start Time: 06:02 PM, 20 May 2018

Question # 5 of 6 (Start time: 06:04:43 PM, 20 May 2018)

Total Marks: 1

Let $X = \{a, b, c, d\}$ *and* $\tau = \{\phi, \{c\}, \{a, c\}, \{b, c, d\}, X\}$ *be a topology on* X. The closed set in X is:

Select the correct option

Reload Math Equations

- (b,d)
- {c}
- {d}
- none

Click to Save Answer & Move to Next Question

MC170202886: Aqsa Zunaira

Time Left 65 sec(s)

MTH634:Quiz 1

Quiz Start Time: 06:02 PM, 20 May 2018

Question # 1 of 6 (Start time: 06:02:10 PM, 20 May 2018) Total Marks: 1

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

Select the correct option

Reload Math Equations

- (φ,{a},{a,b},X}
- (φ,{a},{b},X}
- (φ,{a},{b,c},X}
- (φ,{c},{a,b},X}

Click to Save Answer & Move to Next Question

MC170202886: Aqsa Zunaira

Time Left 54 sec(s)

MTH634:Quiz 1

Quiz Start Time: 06:02 PM, 20 May 2018

Question # 3 of 6 (Start time: 06:03:39 PM, 20 May 2018)

Total Marks: 1

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

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question

MC170202458: Aneeta Shaheen

Time Left 71 sec(s)

MTH634:Quiz 1

Quiz Start Time: 07:34 PM, 20 May 2018

Question # 5 of 6 (Start time: 07:36:31 PM, 20 May 2018) Total Marks: 1

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

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question

604.

→ If A is a subset of a topological space X, then explain why $Ext(A) \cap Int(A) = \phi$.

→ Consider the topology

$$T = \{\phi, \{a\}, \{c,d\}, \{a,c,d\}, \{b,c,d,e\}, X\}$$

on $X = \{a, b, c, d, e\}$ Determine the derived set of $A = \{a, b, c\}$

→ Consider the following topology on $X = \{a, b, c, d$

$$T = \{X, \phi, \{a\}, \{c, b\}, \{a, c, d\}, \{a, b, c, d\}$$

$\{a, b, c\}\}$

→ find the interior points of subset $A = \{a, b, c,\}$ of X

- find the exterior points of A
→ boundary points of A.

→ Let $X = \{x, y, z\}$, $T = \{\{1\}, \{2, 3\}\}$, $T_1 = \{\phi, \{$

$$T_2 = \{\phi, \{1\}, T\}$$

Give an example to show that the Union of two topology need to be

MC170200830: Kainat Ashfaq

Time Left 17 sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 02:39 PM, 14 August 2018

Question # 1 of 4 (Start time: 02:39:20 PM, 14 August 2018)

Total Marks: 1

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

Select the correct option

Reload Math Equations

- True
- False

Click to Save Answer & Move to Next Question

MC170201745: Shakeel Ahmad

Time Left 18 sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 09:29 AM, 14 August 2018

Question # 3 of 4 (Start time: 09:31:13 AM, 14 August 2018)

Total Marks: 1

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

Select the correct option

Reload Math Equations

- True
- False

Click to Save Answer & Move to Next Question

MC170200830: Kainat Ashfaq

Time Left 58 sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 02:39 PM, 14 August 2018

Question # 4 of 4 (Start time: 02:43:18 PM, 14 August 2018)

Total Marks: 1

Which of the following statement is false?

Select the correct option

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

Click to Save Answer & Move to Next Question

MC170200830: Kainat Ashfaq

Time Left 83 sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 02:39 PM, 14 August 2018

Question # 2 of 4 (Start time: 02:41:37 PM, 14 August 2018)

Total Marks: 1

Every discrete space is not a regular space.

Select the correct option

- True
- False

Click to Save Answer & Move to Next Question

TOPOLOGY MY PAPER

int (A) Ext(A) and boundary of A.

mcqs are mosttly fron chapter # 5

ext(A complmnt) =int (A) prove

basis

closure of a set

Lightening

why (intA b(A)) complemnt=ext(A)

Lightening

discrete topology

TOPOLOGY MY PAPER

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MTh 634 Topology

1. Prove that $\bar{\emptyset} = \emptyset$

2. A function $f: (X, T_X) \to (Y, T_Y)$ is continuous iff the inverse image of every membel of basis is an open subset of X.

3. Construct a topological space in which open sets are identical to closed set.

4. let (X, T) be an indiscrete topological space - Find the closure of the set & Also find the Dense set.

① In topological space Prove that $\bar{\bar{X}} = X$ (2 Marks)

② A function $f:(X,\bar{T}x) \to (Y,\bar{T}y)$ is Continuous iff the Inverse of every closed Subset of y under f is closed in x (5 Marks) (Module 75)

③ Show that if $f:(X,\bar{T}x) \to (Y,\bar{T}y)$ is Continuous iff the inverse image of each member of a basis By for $\bar{T}y$ is an open subset of x (3 Marks) (Module 74)

④ Show that for a Subset A of topological space X, if a derived set of A is contained in A $A^d \subset A$ then A is closed 5 Marks

⑤ Let $f:(X,T_x) \to (Y,T_y)$ is Continuous. Then define Continuity at point $p \in X$ 2 Marks

) Construct a topological space in which open sets are identical to closed set 3 Marks

MC170202458: Aneeta Shaheen

Time Left 67 sec(s)

MTH634:Quiz 1

Quiz Start Time: 07:34 PM, 20 May 2018

Question # 1 of 6 (Start time: 07:34:11 PM, 20 May 2018)

Total Marks: 1

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

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question

MC170202458: Aneeta Shaheen

Time Left 32 sec(s)

MTH634:Quiz 1

Quiz Start Time: 07:34 PM, 20 May 2018

Question # 2 of 6 (Start time: 07:34:39 PM, 20 May 2018) Total Marks: 1

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

Select the correct option

Reload Math Equations

- (●) discrete space
- ( ) indiscrete space
- ( ) metric space
- ( ) none

Click to Save Answer & Move to Next Question

MC170202458: Aneeta Shaheen

Time Left 73 sec(s)

MTH634:Quiz 1

Quiz Start Time: 07:34 PM, 20 May 2018

Question # 3 of 6 (Start time: 07:35:49 PM, 20 May 2018)

Total Marks: 1

Let $X = \{a, b, c, d\}$ *and* $\tau = \{\phi, \{c\}, \{a, c\}, \{b, c, d\}, X\}$ *be a topology on* X. The closed set in X is:

Select the correct option

Reload Math Equations

- (b,d)
- (c)
- (d)
- none

Click to Save Answer & Move to Next Question

MC170202458: Aneeta Shaheen

Time Left 80 sec(s)

MTH634:Quiz 1

Quiz Start Time: 07:34 PM, 20 May 2018

Question # 4 of 6 (Start time: 07:36:10 PM, 20 May 2018)

Total Marks: 1

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

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question

MC170202886: Aqsa Zunaira

Time Left 72 sec(s)

MTH634:Quiz 1

Quiz Start Time: 06:02 PM, 20 May 2018

Question # 4 of 6 (Start time: 06:04:19 PM, 20 May 2018)

Total Marks: 1

Let $X = \{a, b, c, d\}$. *The following set* is not *a topology on* X.

Select the correct option

Reload Math Equations

- {φ,{a},{a,b},X}
- {φ,{a},{b},X}
- {φ,{a},{a,c},X}
- {φ,{a},{a,d},X}

Click to Save Answer & Move to Next Question

MC170202886: Aqsa Zunaira

Time Left 60 sec(s)

MTH634:Quiz 1

Quiz Start Time: 06:02 PM, 20 May 2018

Question # 6 of 6 (Start time: 06:05:09 PM, 20 May 2018) Total Marks: 1

Let $X = \{2, 4, 5, 7\}$. *The following set represents a topology on* X.

Select the correct option

Reload Math Equations

- {φ,{2},{4,5},X}
- {φ,{2},{4,5,7},X}
- {φ,{2},{5,7},X}
- {φ,{2},{4},{5},X}

Click to Save Answer & Move to Next Question

MC170203179: Zeshan Rafiq

Time Left 73 sec(s)

MTH634:Quiz 1

Quiz Start Time: 10:16 PM, 22 May 2018

Question # 4 of 6 (Start time: 10:18:12 PM, 22 May 2018)

Total Marks: 1

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

Select the correct option

Reload Math Equations

●	{φ,{a},{a,b},X}
○	{φ,{a},{b},X}
○	{φ,{a},{b,c},X}
○	{φ,{c},{a,b},X}

Click to Save Answer & Move to Next Question

MC170203179: Zeshan Rafiq

Time Left 69 sec(s)

MTH634:Quiz 1

Quiz Start Time: 10:16 PM, 22 May 2018

Question # 3 of 6 (Start time: 10:17:42 PM, 22 May 2018)

Total Marks: 1

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

Select the correct option

Reload Math Equations

○	{φ,{a},{b},{c},X}
●	{φ,{c,d},{b,c,d},X}
○	{φ,{a},{b},X}
○	none

Click to Save Answer & Move to Next Question

MC170203179: Zeshan Rafiq

Time Left 57 sec(s)

MTH634:Quiz 1

Quiz Start Time: 10:16 PM, 22 May 2018

Question # 1 of 6 (Start time: 10:16:23 PM, 22 May 2018) **Total Marks: 1**

The trivial topology is also called:

Select the correct option

- ○ Discrete topology
- ○ Complete topology
- ● Indiscrete topology
- ○ none

Click to Save Answer & Move to Next Question

MC170201745: Shakeel Ahmad

Time Left 81 sec(s)

MTH634:Quiz 1

Quiz Start Time: 08:09 AM, 20 May 2018

Question # 6 of 6 (Start time: 08:13:25 AM, 20 May 2018) **Total Marks: 1**

The smallest topology one can define on some set is called:

Select the correct option

Reload Math Equations

- (●) indiscrete topology
- ( ) discrete topology
- ( ) comparable topology
- ( ) usual topology

Click to Save Answer & Move to Next Question

MC170201745: Shakeel Ahmad

Time Left 73 sec(s)

MTH634:Quiz 1

Quiz Start Time: 08:09 AM, 20 May 2018

Question # 4 of 6 (Start time: 08:12:04 AM, 20 May 2018) Total Marks: 1

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

Select the correct option

Reload Math Equations

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

Click to Save Answer & Move to Next Question

MC170201745: Shakeel Ahmad

Time Left 68 sec(s)

MTH634:Quiz 1

Quiz Start Time: 08:09 AM, 20 May 2018

Question # 3 of 6 (Start time: 08:11:37 AM, 20 May 2018) Total Marks: 1

The trivial topology is also called:

Select the correct option

- Discrete topology
- Complete topology
- Indiscrete topology
- none

Click to Save Answer & Move to Next Question

MC170201745: Shakeel Ahmad

Time Left 61 sec(s)

MTH634:Quiz 1

Quiz Start Time: 08:09 AM, 20 May 2018

Question # 2 of 6 (Start time: 08:10:51 AM, 20 May 2018) Total Marks: 1

Let $X = \{a, b, c, d\}$. *The following set* is not *a topology on* X.

Select the correct option

Reload Math Equations

○	{φ,{a},{a,b},X}
●	{φ,{a},{b},X}
○	{φ,{a},{a,c},X}
○	{φ,{a},{a,d},X}

Click to Save Answer & Move to Next Question

MC170201745: Shakeel Ahmad

Time Left 36 sec(s)

MTH634:Quiz 1

Quiz Start Time: 08:09 AM, 20 May 2018

Question # 1 of 6 (Start time: 08:09:38 AM, 20 May 2018) Total Marks: 1

Let $X = \{a, b, c, d\}$ *and* $\tau = \{\phi, \{c\}, \{a, c\}, \{b, c, d\}, X\}$ *be a topology on* X. The closed set in X is:

Select the correct option

Reload Math Equations

- {b,d}
- {c}
- {d}
- none

Click to Save Answer & Move to Next Question