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MTH634 QUIZ NO.1 FILE

SOLVED BY SANAULLAH KHAN

CONTACT NO:03066793776

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Email:

Sanaullahkhan03066793@gmail.com

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SANAULLAH KHAN
MSc. MATHEMATICS
FOR QUIZ CONTECT
(03066793776)

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Question # 1 of 10 (Start time: 10:08:18 PM, 07 June 2022) Total Marks: 1

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

Select the correct option

☐ 5

☐ 4

☒ 1.5

☐ -0.5

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Question # 2 of 10 (Start time: 10:09:15 PM, 07 June 2022) Total Marks: 1

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

Select the correct option

☐ dense set

☒ open sets

☐ closed set

☐ derived set

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Question # 3 of 10 (Start time: 10:09:36 PM, 07 June 2022) Total Marks: 1

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

Select the correct option

☒ $\{\phi, X\}$

☐ $\{\phi, \{a\}, \{a, b\}, \{c\}, X\}$

☐ $\{\phi, \{a\}, \{b\}\}$

☐ $\{\{a\}, \{b\}, X\}$

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Question # 4 of 10 (Start time: 10:10:21 PM, 07 June 2022) Total Marks: 1

Let $X = \mathbb{R}$ with usual topology and consider $B = \{1, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \dots\}$. The limit point of B is:

Select the correct option

☐ none

☒ 0

☐ $\frac{1}{2}$

☐ 1

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Question # 5 of 10 (Start time: 10:11:31 PM, 07 June 2022) Total Marks: 1

A subset U of R_2 is open in R_2 iff it contains an at each of its points.

Select the correct option

- ☐ closed disk
- ☐ open sphere
- ☐ closed interval
- ☒ open disk

Click to Save Answer & Move to Next Question

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Question # 6 of 10 (Start time: 10:12:14 PM, 07 June 2022) Total Marks: 1

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

- ☒ cofinite topology
- ☐ discrete topology
- ☐ none
- ☐ indiscrete topology

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SANAULLAH KHAN
MSc. MATHEMATICS
FOR QUIZ CONTECT
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Question # 7 of 10 (Start time: 10:13:46 PM, 07 June 2022) Total Marks: 1

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

Select the correct option

☐ {-1,1}

☐ {-infinity, +infinity}

☐ {}

☒ {0}

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Question # 8 of 10 (Start time: 10:14:24 PM, 07 June 2022) Total Marks: 1

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

Select the correct option

☐ $\{\emptyset, \{a\}, \{b\}, \{c\}, X\}$

☐ none

☒ $\{\emptyset, \{c, d\}, \{b, c, d\}, X\}$

☐ $\{\emptyset, \{a\}, \{b\}, X\}$

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MSc. MATHEMATICS
FOR QUIZ CONTECT
(03066793776)

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Quiz Start Time: 10:08 PM, 07 June 2022

Question # 9 of 10 (Start time: 10:14:54 PM, 07 June 2022)

Total Marks: 1

Every collection of subsets of a set is said to be a topology.

Select the correct option

☒	False
☐	True

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Question # 10 of 10 (Start time: 10:15:20 PM, 07 June 2022) Total Marks: 1

If X is finite and has n elements then power set of X has ____ elements.

Select the correct option Reload Math Equations

☐	2^{n-1}
☐	2^{n+1}
☒	2^n
☐	none

Click to Save Answer & Move to Next Question

SANAULLAH KHAN ★
MSc. MATHEMATICS ★
FOR QUIZ CONTEST ★
(03066793776) ★

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SANAULLAH KHAN
MSc. MATHEMATICS
FOR QUIZ CONTECT
(03066793776)