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Question # 10 of 10

SOLVED BY: WAQAR HUSSAIN

Exterior point of a set is the _____ point of its complement.

PRESENTED BY: TALEEMI MARKAZ

Select the correct option

- limit
- interior (Lecture 12, Topic 36)
- exterior
- boundary

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Question # 9 of 10

SOLVED BY: WAQAR HUSSAIN

The set of _____ of $\mathbb{R}$ (Real line) forms a topology called usual topology.

PRESENTED BY: TALEEMI MARKAZ

Select the correct option

- all open intervals (Lecture 15, Topic 48)
- all open balls
- all open spheres
- all open discs

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Question # 8 of 10

SOLVED BY: WAQAR HUSSAIN

The set of all singletons forms a basis for _____ topology.

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- co-finite
- indiscrete
- lower limit
- discrete

(Lecture 15, Topic 47)

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Question # 7 of 10

SOLVED BY: WAQAR HUSSAIN

Which of the following is the basis for a upper limit topology on R (The Set of Real Numbers)?

PRESENTED BY: TALEEMI MARKAZ

Select the correct option

- $B_{up} = \{[a,b) | a,b \in R\}$
- $B_{up} = \{(a,b) | a,b \in R\}$
- $B_{up} = \{(a,b] | a,b \in R\}$ (Lecture 15, Topic 49)
- $B_{up} = \{[a,b] | a,b \in R\}$

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Question # 6 of 10

SOLVED BY: WAQAR HUSSAIN

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

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Select the correct option

- -2
- 2
- 5
- 6

(Lecture 11, Topic 33 Conceptual)

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Question # 5 of 10

SOLVED BY: WAQAR HUSSAIN

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

PRESENTED BY: TALEEMI MARKAZ

Select the correct option

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

(Lecture 15, Topic 48)

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Question # 4 of 10

SOLVED BY: WAQAR HUSSAIN

The basis containing of all _____ in $\mathbb{R}^2$ generates the usual topology on $\mathbb{R}^2$.

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- open balls (Lecture 15, Topic 48)
- closed balls
-
-

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Question # 3 of 10

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- 2
- 1
- none
- 3/2

(Lecture 11, Topic 33)

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Question # 2 of 10

SOLVED BY: WAQAR HUSSAIN

If A is a subset of a topological space X, then

PRESENTED BY: TALEEMI MARKAZ

Select the correct option

- exterior of A is an interior of A
- exterior of A is an interior of A^c

(Lecture 12, Topic 36)

-
-

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Question # 1 of 10

SOLVED BY: WAQAR HUSSAIN

Which of the following is the basis for a lower limit topology on R (The Set of Real Numbers)?

PRESENTED BY: TALEEMI MARKAZ

Select the correct option

- $B_l = \{[a,b) \mid a,b \in R\}$ (Lecture 15, Topic 49)
- $B_l = \{(a,b] \mid a,b \in R\}$
- $B_l = \{(a,b) \mid a,b \in R\}$
- $B_l = \{[a,b] \mid a,b \in R\}$

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Question # 10 of 10

SOLVED BY: WAQAR HUSSAIN

If B is a basis for a topology T on a set X then every element of T can be written as _____ of the elements of B.

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- difference
- complement
- union
- intersection

(Lecture 14, Topic 44)

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Question # 9 of 10

SOLVED BY: WAQAR HUSSAIN

If B is a basis for a topology T on a set X then _____ element of T can be written as union of the elements of B.

Select the option

PRESENTED BY: TALEEMI MARKAZ

- no
- every
- one
- some

(Lecture 14, Topic 44)

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Question # 8 of 10

SOLVED BY: WAQAR HUSSAIN

Interior of a set A(denoted by A^o) which is a subset of a topological space X is the _____ of all _____ subsets of X contained in A.

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- intersection, closed
- union, open
- union, closed
- intersection, open

(Lecture 11, Topic 33)

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Question # 7 of 10

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- $\{a,b\}$
- (a,b)
-
-

(Lecture 12, Topic 37, Conceptual)

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Question # 6 of 10

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- Largest open subset of A (Lecture 11, Topic 35)
- Smallest open subset of A
-
-

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Question # 5 of 10

SOLVED BY: WAQAR HUSSAIN

In a topological space X, let a set G is a neighborhood of each of its point. Then G is

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- open (Lecture 13, Topic 39)
- closed
-
-

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Question # 4 of 10

SOLVED BY: WAQAR HUSSAIN

In a topological space X and a subset A of X, A is dense in X if and only if _____

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- $\bar{X} = X$
- $\bar{A} = A$
- $\bar{A} \subset X$
- $\bar{A} = X$

(Lecture 10, Topic 30)

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Question # 3 of 10

SOLVED BY: WAQAR HUSSAIN

Let A be a non empty proper subset of an indiscrete topological space X. The boundary of A is

Select the [illegible]otion

PRESENTED BY: TALEEMI MARKAZ

- X (Lecture 12, Topic 37)
- $\emptyset$
-
-

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Question # 2 of 10

SOLVED BY: WAQAR HUSSAIN

Let A be a non empty proper subset of an indiscrete topological space X. The exterior of A is

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- A itself (Lecture 12, Topic 36)
- $\emptyset$
-
-

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Question # 1 of 10

SOLVED BY: WAQAR HUSSAIN

The neighborhood system of a point p in an indiscrete space X is

Select the c[illegible]option

PRESENTED BY: TALEEMI MARKAZ

- p
- $\emptyset$
- X

(Lecture 13, Topic 39)

- none

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Question #

SOLVED BY: WAQAR HUSSAIN

The neighbor[illegible]n of a point p in an indiscrete space X is

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- p
- $\emptyset$
- X (Lecture 13, Topic 39)
- none

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Question # 10 of 10 **SOLVED BY: WAQAR HUSSAIN**

For any two topologists T1 and T2 defined on a non empty set then T1 is finer than T2, iff for all U(open set) $\in$ T2 implies _____

Select the correct option **PRESENTED BY: TALEEMI MARKAZ**

- $U \notin T1$
- $U \in T1$ (Lecture 6, Topic 19)
-
-

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Question # 9 of 10

SOLVED BY: WAQAR HUSSAIN

The largest topology defined on some set is the _____ topology.

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- discrete (Lecture 2, Topic 08)
- indiscrete
- lower limit
- co finite

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Question # 8 of 10

SOLVED BY: WAQAR HUSSAIN

Every open subset of the real line is a union of distinct _____

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- closed intervals
- Open intervals (Lecture 3, Topic 11)
- Semi open intervals
- Sets

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Question # 7 of 10

SOLVED BY: WAQAR HUSSAIN

Only one topology can be defined on a set

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- True
- False

(Lecture 2, Topic 05)

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Question # 6 of 10

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

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

(Lecture 6, Topic 20)

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Question # 5 of 10

SOLVED BY: WAQAR HUSSAIN

The trivial topology is also called

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- Discrete topology
- Complete topology
- Indiscrete topology (Lecture 2, Topic 08)
- none

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Question # 4 of 10

SOLVED BY: WAQAR HUSSAIN

Let (X, τ) be the topological space and A,B⊂X such that A⊂B then for derived set A' and

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- $(A \cup B)' = A' \cup B'$ (Lecture 7, Topic 23)
- $(A \cup B)' = A' \cap B'$
- $(A \cup B)' = A \cup B$
- None of above

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Question # 3 of 10

SOLVED BY: WAQAR HUSSAIN

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

PRESENTED BY: TALEEMI MARKAZ

- $\tau \subset X$
- $X \subset \tau$
- $\tau \subset P(X)$ (Lecture 1, Topic 02)
- none

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Question # 2 of 10

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

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

(Lecture 5, Topic 17)

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

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Question # 1 of 10

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

PRESENTED BY: TALEEMI MARKAZ

- True (Lecture 3, Topic 12)
- False
-
-

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Question # 30 of 30

SOLVED BY: WAQAR HUSSAIN

Continuity of a function in a topological space depends on the collection of _____ of both sets.

Select the correct option

- open subsets
- closed subsets
- proper subsets
- Improper subsets

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Question # 29 of 30

SOLVED BY: WAQAR HUSSAIN

If B is a basis for a topology T on a set X then _____ element of T can be written as union of the elements of B

Select the correct option

- every
- no
- some
- one

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Question # 28 of 30

SOLVED BY: WAQAR HUSSAIN

The basic for usual topology on R is the set of all ____

Select the correct option

- open intervals
- closed intervals
- open disks
- closed disks

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Question # 27 of 30

SOLVED BY: WAQAR HUSSAIN

Boundary point of a set is also called _____ point.

Select the correct option

- exterior
- interior
- frontier
- limit

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Question # 26 of 30

SOLVED BY: WAQAR HUSSAIN

The set of all singletons forms a basis for _____ topology.

Select the correct option

- discrete
- indiscrete
- co finite
- lower limit

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Question # 25 of 30

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

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

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Question # 24 of 30

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

- $(x|a < x < b)$ where $a, b \in R$ with usual order $a < b$
- $(x|a \leq x < b)$ where $a, b \in R$ with usual order $a < b$
- $(x|a \leq x \leq b)$ where $a, b \in R$ with usual order $a < b$
- $(x|a < x \leq b)$ where $a, b \in R$ with usual order $a < b$

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Question # 23 of 30

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

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

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Question # 22 of 30

SOLVED BY: WAQAR HUSSAIN

A function is continuous _____ it is continuous at ___ point of the domain space.

Select the correct option

- if, every
- if and only if, every
- if and only if, any
- if, any

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Question # 21 of 30

SOLVED BY: WAQAR HUSSAIN

Which of the following is the basis for a lower limit topology on R (The Set of Real Numbers)?

Select the correct option

- $B_l = \{[a,b) \mid a,b \in R\}$
- $B_l = \{(a,b) \mid a,b \in R\}$
- $B_l = \{[a,b] \mid a,b \in R\}$
- $B_l = \{(a,b] \mid a,b \in R\}$

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Question # 20 of 30

SOLVED BY: WAQAR HUSSAIN

The set of _____ of R (Real line) forms a topology called usual topology.

Select the correct option

- all open discs
- all open balls
- all open intervals
- all open spheres

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Question # 19 of 30

SOLVED BY: WAQAR HUSSAIN

_____ is the largest topology containing both T1 and T2.

Select the correct option

- T1 intersection T2
- T1 union T2
- Cofinite topology
- Indiscrete topology

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Question # 18 of 30

SOLVED BY: WAQAR HUSSAIN

Interior of a set A (denoted by Ao) which is a subset of a topological space X is the ____ of all ____ subsets of X contained in A

Select the correct option

- intersection, open
- union, closed
- intersection, closed
- union, open

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Question # 17 of 30

SOLVED BY: WAQAR HUSSAIN

Exterior point of a set is the _____ point of its complement.

Select the correct option

- interior
- boundary
- exterior
- limit

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Question # 16 of 30

SOLVED BY: WAQAR HUSSAIN

Which of the following are NOT topologically equal?

Select the correct option

- A circle and a square
- A triangle and a rectangle
- A rectangle and a square
- A circle and a line

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Question # 15 of 30

SOLVED BY: WAQAR HUSSAIN

The largest topology defined on some set is the _____ topology.

Select the correct option

- indiscrete
- lower limit
- co finite
- discrete

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Question # 14 of 30

SOLVED BY: WAQAR HUSSAIN

Which of the following is the basis for an upper limit topology on R (The Set of Real Numbers)?

Select the correct option

- $B_{up} = \{(a,b) \mid a,b \in R\}$
- $B_{up} = \{(a,b] \mid a,b \in R\}$
- $B_{up} = \{[a,b] \mid a,b \in R\}$
- $B_{up} = \{[a,b) \mid a,b \in R\}$

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Question # 13 of 30

SOLVED BY: WAQAR HUSSAIN

Which of the following statement is not true?

Select the correct option

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

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Question # 12 of 30

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

- 2^{n-1}
- 2^{n+1}
- 2^{n}
- none

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Question # 11 of 30

SOLVED BY: WAQAR HUSSAIN

If one shape can be deformed in another shape then topologically they are considered to be _____

Select the correct option

- the same
- dissimilar
- unique
- partially equal

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Question # 10 of 30

SOLVED BY: WAQAR HUSSAIN

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

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Question # 9 of 30

SOLVED BY: WAQAR HUSSAIN

In a discrete space X, the derived set A' of any subset A of X is _____

Select the correct option

- A itself
- A complement
- empty set
- X

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Question # 8 of 30

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

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

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Question # 7 of 30

SOLVED BY: WAQAR HUSSAIN

The smallest topology one can define on some set is called

Select the correct option

- comparable topology
- indiscrete topology
- discrete topology
- usual topology

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Question # 6 of 30

SOLVED BY: WAQAR HUSSAIN

Only one topology can be defined on a set

Select the correct option

- True
- False
-
-

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Question # 5 of 30

SOLVED BY: WAQAR HUSSAIN

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

Select the correct option

- Qualitative
- Quantitative
-
-

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Question # 4 of 30

SOLVED BY: WAQAR HUSSAIN

The lower limit topology is ____ than the usual topology.

Select the correct option

- finer
- coarser
- equal
- none of these

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Question # 3 of 30

SOLVED BY: WAQAR HUSSAIN

Which of the following is true for a subset A of a Topological space X.

Select the correct option

- $X = A^0 \cup Ext(A) \cup bd(A)$
- $X = A^0 \cap Ext(A) \cup bd(A)$
- $X = A^0 \cap Ext(A) \cap bd(A)$
- $X = A^0 \cup Ext(A) \cap bd(A)$

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Question # 2 of 30

SOLVED BY: WAQAR HUSSAIN

Topology means the study of something with respect to its _____

Select the correct option

- volume
- perimeter
- place
- area

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Question # 1 of 30

SOLVED BY: WAQAR HUSSAIN

For any set there are always two topologies namely _____

Select the correct option

- Lower limit topology and discrete topology
- Discrete Topology and cofinite Topology
- Discrete and Indiscrete Topology
- Co finite and indiscrete Topology

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