HASEEB

VU

Virtual University

M.SC

(MATH)

CBIT

Narowal Campus

Whatsapp:03496672887

BC210414415: ALI AUN

MTH104 - Sets and Logic (Quiz # 3)

Question # 1 of 10 (Start time: 07:45:28 AM, 28 February 2022)

The ordinal number of {1,2,3,4} is _____.

Select the correct option

●	4
○	1
○	2
○	3

KINEMASTER

MTH104 - Sets and Logic (Quiz # 3)

Question # 2 of 10 (Start time: 07:46:56 AM, 28 February 2022)

Let C be the set of countries on earth, thinking of each country as a collection of cities. Then UC is the set of all cities on earth, and the function f that assigns to each country its capital city is a choice function for C.

Select the correct option

- ○ False
- ● True

MTH104 - Sets and Logic (Quiz # 3)

KINEMASTER

Question # 3 of 10 (Start time: 07:47:58 AM, 28 February 2022)

Let C be a non-empty set of non-empty sets. A function $f : C \rightarrow UC$ is called a choice function for C if $f(A) \in A$ for all $A \in C$.

Select the correct option

- False
- True

Quiz

MTH104 - Sets and Logic (Quiz # 3)

Question # 4 of 10 (Start time: 07:48:32 AM, 28 February 2022)

An element 'a' in a well-ordered set A is called a limit element if _____.

Select the correct option

- it has an immediate predecessor and if it is the first element.
- it does not has an immediate predecessor and if it is not the first elem
- it is the first element.
- it has an immediate predecessor.

B is correct

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MTH104 - Sets and Logic (Quiz # 3)

Question # 5 of 10 (Start time: 07:50:01 AM, 28 February 2022)

Let A be a well-ordered set. Then every subset of A is well-ordered.

Select the correct option

- Given statement is true.
- Given statement is false.

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MTH104 - Sets and Logic (Quiz # 3)

Question # 6 of 10 (Start time: 07:50:22 AM, 28 February 2022)

The ordinal number of the set P of counting numbers is denoted
ω.

Select the correct option

- false
- true

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MTH104 - Sets and Logic (Quiz # 3)

Question # 7 of 10 (Start time: 07:52:26 AM, 28 February 2022)

Let A be a well-ordered set. Then If B is similar to A, then B is well-ordered.

Select the correct option

- Given statement is true.
- Given statement is false.

KINEMASTER

Question # 8 of 10 (Start time: 07:52:47 AM, 28 Februa

Suppose A and B are well-ordered sets, and suppose A is similar to an initial segment of B. Then A is said to be _____ than B.

Select the correct option

shorter

longer

KINEMASTER

Question # 9 of 10 (Start time: 07:54:09 AM, 28 Februar

Let C be the collection of all pairs of shoes in the world. Then the function that picks the left shoe out of each pair is a choice function for C.

Select the correct option

- True
- False

Question # 10 of 10 (Start time: 07:54:43 AM, 28 Febru

Any well-ordered set A is not linearly ordered.

Select the correct option

- Given statement is true.
- Given statement is false.

uestion # 6 of 10 (

The ordinal number of empty set is _____.

Select the correct option

- 1
- 0



Question # 7 of 10 (Start time: 02:24:50 PM, 01 March 2022)

Let C be the collection of all pairs of shoes in the world. Then the function that picks the left shoe out of each pair is a choice function for C.

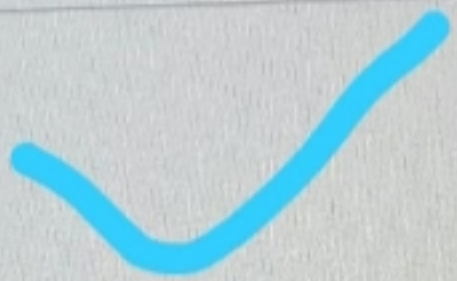
Select the correct option

- False
- True



The ordinal number of the set P of counting numbers is denoted by ω.

Select the correct option

- true 
- false

sec(s)

MTH104 - Sets and Logic (Quiz # 3)

Quiz Start Time: 03:06 PM, 01 March 2022

Question # 2 of 10 (Start time: 03:08:23 PM, 01 March 2022)

Total Marks: 1

The ordinal number of set {a,{b,c}} is _____

Select the correct option

Reload Math Equations

○	1
○	3
○	0
○	2

Click to Save Answer & Move to Next Question

MTH104 - Sets and Logic (Quiz # 3)

Quiz Start Time: 03:06 PM, 01 March 2022

Question # 3 of 10 (start time: 03:09:04 PM, 01 March 2022)

Total Marks: 1

Suppose A and B are well-ordered sets, and suppose A is similar to an initial segment of B. Then A is said to be _____ than B.

Select the correct option

Reload Math Equations

- longer
- shorter



Click to Save Answer & Move to Next Question

MTH104 - Sets and Logic (Quiz # 3)

Quiz Start Time: 03:06 PM, 01 March 2022

Question # 1 of 10 (Start time: 03:06:54 PM, 01 March 2022)

Total Marks: 1

The ordinal number of empty set is _____.

Select the correct option

Reload Math Equations

- 0
- 1

Click to Save Answer & Move to Next Question

MTH104 - Sets and Logic (Quiz # 3)

Quiz Start Time: 03:06 PM, 01 March 2022

Question # 7 of 10 (Start time: 03:13:15 PM, 01 March 2022)

Total Marks: 1

Let S(A) denote the collection of all initial segments of elements in a well-ordered set A, and let S(A) be ordered by set inclusion. Then A is similar to S(A) and, in particular, the function $f : A \rightarrow S(A)$ defined by $f(x) = s(x)$ is a similarity mapping between A and S(A).

Select the correct option

Reload Math Equations

- ○ Given statement is false.
- ○ Given statement is true.



Click to Save Answer & Move to Next Question

MTH104 - Sets and Logic (Quiz # 3)

Quiz Start Time: 03:06 PM, 01 March 2022

Question # 5 of 10 (Start time: 03:10:58 PM, 01 March 2022)

Total Marks: 1

An element 'a' in a well-ordered set A is called a limit element if _____.

Select the correct option

Reload Math Equations

- it is the first element.
- it has an immediate predecessor.
- it does not has an immediate predecessor and if it is not the first element.
- it has an immediate predecessor and if it is the first element.

Click to Save Answer & Move to Next Question

sec(s)

MTH104 - Sets and Logic (Quiz # 3)

Quiz Start Time: 03:06 PM, 01 March 2022

Question # 10 of 10 (Start time: 03:18:34 PM, 01 March 2022)

Total Marks: 1

Suppose A and B are well-ordered sets, and suppose A is similar to an initial segment of B. Then B is said to be _____than A.

Select the correct option

Reload Math Equations

- longer
- shorter

Question # 8 of 10 (Start time: 02:31:57 PM, 01 March 2022)

Let C be a non-empty set of non-empty sets. A function $f : C \to \cup C$ is called a choice function for C if $f(A) \in A$ for all $A \in C$.

Select the correct option

- True
- False

Let A be a well-ordered set. The initial segment s(a) of an element $a \in A$ consists of all elements in A which strictly

Select the correct option

○	Given statement is true.
○	Given statement is false.