CS636 - Formal Methods (Quiz No. 4) **Quiz Start Time: 11:07 AM, 26 June 2024**

Question # 1 of 10 (Start time: 11:07:35 AM, 26 June 2024) **Total Marks:** 1

A _____ is an unordered collection of objects in which repetition is not significant.

Select the correct option

Reload Math Equations

- ○ function
- ○ formula
- ○ sequence
- ◉ set

Click to Save Answer & Move to Next Question

CS636 - Formal Methods (Quiz No. 4) **Quiz Start Time: 11:07 AM, 26 June 2024**

Question # 2 of 10 (Start time: 11:08:16 AM, 26 June 2024) **Total Marks:** 1

Which one is not the component of a complete VDM-SL specification?

Select the correct option

Reload Math Equations

- ○ Functions
- ○ Declaration of constants
- ◉ Libraries
- ○ State definition

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 11:09:01 AM, 26 June 2024) **Total Marks:** 1

Z represents:

Select the correct option

Reload Math Equations

- boolean values
- real numbers
- integers
- natural numbers

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 11:10:19 AM, 26 June 2024) **Total Marks:** 1

It is common in the programming world for a _____ to be undefined.

Select the correct option

Reload Math Equations

- ○ formula
- ○ diagram
- ◉ value
- ○ equation

Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start time: 11:11:18 AM, 26 June 2024) **Total Marks:** 1

Constant is something that is not essential to any specification, but can greatly enhance its _____.

Select the correct option

Reload Math Equations

- maintainability
- usability
- readability
- scalability

Click to Save Answer & Move to Next Question

Question # 6 of 10 (Start time: 11:12:32 AM, 26 June 2024) **Total Marks:** 1

In VDM-SL, the types clause is the appropriate place to define new _____.

Select the correct option

Reload Math Equations

- (●) types
- ( ) operations
- ( ) functions
- ( ) libraries

Click to Save Answer & Move to Next Question

Question # 7 of 10 (Start time: 11:13:21 AM, 26 June 2024) **Total Marks:** 1

The _____ of two sets, j and k returns a set that contains all the elements of the set j and all the elements of the set k.

Select the correct option

Reload Math Equations

- (●) union
- ( ) difference
- ( ) complement
- ( ) intersection

Click to Save Answer & Move to Next Question

Question # 8 of 10 (Start time: 11:14:26 AM, 26 June 2024) **Total Marks:** 1

The _____ operator of VDM-SL (card) returns the number of elements in a given set.

Select the correct option

Reload Math Equations

- ○ membership
- ◉ cardinality
- ○ assignment
- ○ subset

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 11:15:13 AM, 26 June 2024) **Total Marks:**

To define constants in VDM-SL, _____ keyword is used.

Select the correct option

Reload Math Equations

- types
- init
- values
- inv

Click to Save Answer & Move to Next Question

Question # 10 of 10 (Start time: 11:16:09 AM, 26 June 2024) **Total Marks:** 1

The _____ operator checks whether or not a particular element is present in a particular set.

Select the correct option

Reload Math Equations

- ○ subset
- ◉ membership
- ○ assignment
- ○ cardinality

Click to Save Answer & Move to Next Question

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Question # 9 of 10 (Start time: 11:38:54 AM, 26 June 2024) **Total Marks:** 1

The _____ of j and k is the set that contains all the elements that belong to j but do not belong to k.

Select the correct option

Reload Math Equations

- (●) complement
- ( ) difference
- ( ) intersection
- ( ) union

Click to Save Answer & Move to Next Question

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Question # 3 of 10 (Start time: 11:32:50 AM, 26 June 2024) **Total Marks:** 1

The _____ of two sets j and k returns a set that contains all the elements that are common to both j and k.

Select the correct option

Reload Math Equations

- union
- difference
- complement
- intersection

Click to Save Answer & Move to Next Question

Question # 10 of 10 (Start time: 11:40:12 AM, 26 June 2024) **Total Marks:** 1

In VDM-SL, the state refers to the _____ data that must be stored by the system.

Select the correct option

Reload Math Equations

- ○ complex
- ◉ permanent
- ○ temporary
- ○ partial

Click to Save Answer & Move to Next Question



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CS636 - Formal Methods (Quiz No. 4)

Quiz Start Time: 11:30 AM, 26 June 2024

Question # 1 of 10 (Start time: 11:30:15 AM, 26 June 2024)

Total Marks: 1

Constant is something that is not essential to any specification, but can greatly enhance its _____

Select the correct option

- (●) usability
- ( ) readability
- ( ) scalability
- ( ) maintainability

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Click to Save Answer & Move to Next Question

CS636 - Formal Methods (Quiz No. 4)

Quiz Start Time: 11:30 AM, 26 June 2024

Question # 2 of 10 (Start time: 11:31:21 AM, 26 June 2024)

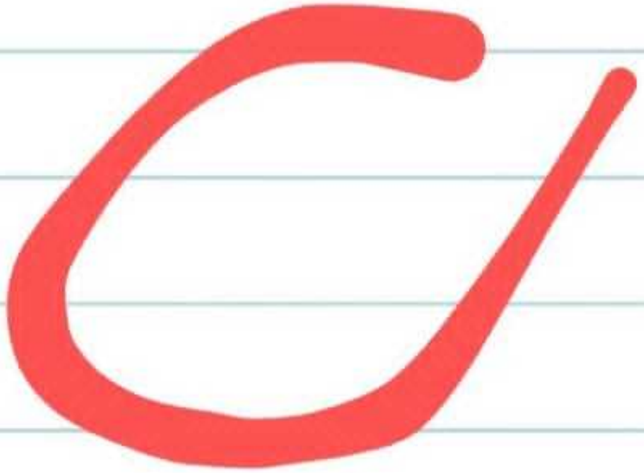
Total Marks: 1

The _____ operator checks whether or not a particular element is present in a particular set.

Select the correct option

Reload Math Equations

- assignment
- cardinality
- membership
- subset



Click to Save Answer & Move to Next Question

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Question # 7 of 10 (Start time: 11:36:18 AM, 26 June 2024) **Total Marks:** 1

A subrange returns the set of all numbers from the _____ to the last number inclusive.

Select the correct option

Reload Math Equations

- fourth
- third
- second
- first

Click to Save Answer & Move to Next Question

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Question # 8 of 10 (Start time: 11:37:28 AM, 26 June 2024) **Total Marks:** 1

The _____ operator of VDM-SL (card) returns the number of elements in a given set.

Select the correct option

Reload Math Equations

- subset
- assignment
- cardinality
- membership

Click to Save Answer & Move to Next Question

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Click to Save Answer & Move to Next Question

CS636 - Formal Methods (Quiz No. 4)

Quiz Start Time: 11:30 AM, 26 June 2024

Question # 6 of 10 (Start time: 11:35:16 AM, 26 June 2024)

Total Marks: 1

Which sign is used for commenting in VDM-SL?

Select the correct option

Reload Math Equations

- ==
- --
- ##
- //

Click to Save Answer & Move to Next Question

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Question # 4 of 10 (Start time: 11:34:21 AM, 26 June 2024) **Total Marks:** 1

Which one is not the component of a complete VDM-SL specification?

Select the correct option

Reload Math Equations

- (●) Libraries
- ( ) State definition
- ( ) Declaration of constants
- ( ) Functions

Click to Save Answer & Move to Next Question

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CS636 - Formal Methods (Quiz No. 4) Quiz Start Time: 11:30 AM, 26 June 2024

Question # 5 of 10 (Start time: 11:35:02 AM, 26 June 2024) Total Marks: 1

Char represents:

Select the correct option

Reload Math Equations

- integers
- real numbers
- set of alphanumeric characters
- natural numbers excluding zero

Click to Save Answer & Move to Next Question