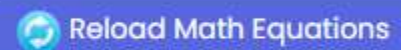


Question # 1 of 10 (Start time: 11:07:35 AM, 26 June 2024)

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

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

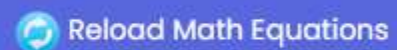
Click to Save Answer & Move to Next Question

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

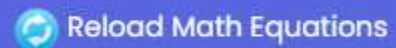
Click to Save Answer & Move to Next Question

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

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 |

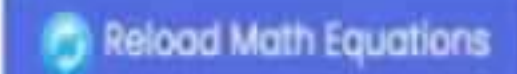
[Click to Save Answer & Move to Next Question](#)

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 |



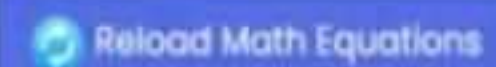
Click to Save Answer & Move to Next Question

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

Total Marks: |

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



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 |

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 |

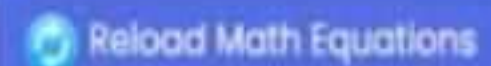
[Click to Save Answer & Move to Next Question](#)

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

Total Marks: |

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

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

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

☐	--
☒	==
☐	##
☐	//

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

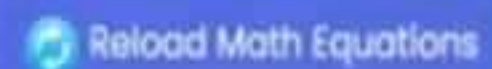
Click to Save Answer & Move to Next Question

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