

Learning4help by Waqas

Asslam-o-Alaikum! In this file we'll provide you **CS636 Important Final term MCQs. Must Prepare before Final term Exams.** I am not responsible for any answer. Verify Answers yourself too. If you found mistake then inform me.

If you found mistake then let us know.

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CS636 - Formal Methods (Graded Quiz No. 3) Quiz Start Time: 01:00 PM, 02 January 2025

Question # 1 of 10 (Start time: 01:00:20 PM, 02 January 2025) Total Marks: 1

A function is a set of _____ from one set to another.

Select the correct option

☐ integers

☒ assignments

☐ alphabets

☐ logical operators

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CS636 - Formal Methods (Graded Quiz No. 3) Quiz Start Time: 01:00 PM, 02 January 2025

Question # 2 of 10 (Start time: 01:00:43 PM, 02 January 2025) Total Marks: 1

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

Select the correct option

☐ maintainability

☐ scalability

☒ readability

☐ usability

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CS636 - Formal Methods (Graded Quiz No. 3) Quiz Start Time: 01:00 PM, 02 January 2025

Question # 3 of 10 (Start time: 01:01:31 PM, 02 January 2025) Total Marks: 1

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

Select the correct option

Reload Math Equations

☐ functions

☐ libraries

☒ types

☐ operations

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CS636 - Formal Methods (Graded Quiz No. 3) Quiz Start Time: 01:00 PM, 02 January 2025

Question # 4 of 10 (Start time: 01:01:52 PM, 02 January 2025) Total Marks: 1

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

Select the correct option

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☐ Functions

☒ Libraries

☐ Declaration of constants

☐ State definition

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CS636 - Formal Methods (Graded Quiz No. 3) Quiz Start Time: 01:00 PM, 02 January 2025

Question # 5 of 10 (Start time: 01:02:13 PM, 02 January 2025) Total Marks: 1

R represents:

Select the correct option

Reload Math Equations

- ☒ real numbers
- ☐ characters
- ☐ natural numbers
- ☐ integers

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CS636 - Formal Methods (Graded Quiz No. 3) Quiz Start Time: 01:00 PM, 02 January 2025

Question # 6 of 10 (Start time: 01:02:37 PM, 02 January 2025) Total Marks: 1

The truth table contains only T in the ____ column in tautology?

Select the correct option

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- ☐ Initial
- ☒ Final
- ☐ Second
- ☐ Middle

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CS636 - Formal Methods (Graded Quiz No. 3)

Quiz Start Time: 01:00 PM, 02 January 2025

Question # 7 of 10 (Start time: 01:02:53 PM, 02 January 2025) Total Marks: 1

In the system of logic, a proposition could have the value TRUE, FALSE or

Select the correct option

Reload Math Equations

- ☒ Undefined
- ☐ Fallacy
- ☐ Negative
- ☐ Conditional

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CS636 - Formal Methods (Graded Quiz No. 3)

Quiz Start Time: 01:00 PM, 02 January 2025

Question # 8 of 10 (Start time: 01:03:11 PM, 02 January 2025) Total Marks: 1

A quote type defines a single value, and at the same time defines a _____ containing just that value.

Select the correct option

Reload Math Equations

- ☐ formula
- ☐ function
- ☒ constant
- ☐ type

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CS636 - Formal Methods (Graded Quiz No. 3) Quiz Start Time: 01:00 PM, 02 January 2025

Question # 9 of 10 (Start time: 01:03:28 PM, 02 January 2025) 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

☐ partial

☒ permanent

☐ complex

☐ temporary

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CS636 - Formal Methods (Graded Quiz No. 3) Quiz Start Time: 01:00 PM, 02 January 2025

Question # 10 of 10 (Start time: 01:03:47 PM, 02 January 2025) Total Marks: 1

The universal quantifier denoted by _____

Select the correct option

Reload Math Equations

☐ ~

☒ $\forall$

☐ $\exists$

☐ $\wedge$

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CS636 - Formal Methods (Graded Quiz No. 4) Quiz Start Time: 11:08 PM, 09 January 2025

Question # 1 of 10 (Start time: 11:08:35 PM, 09 January 2025) 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

☐ intersection

☒ union

☐ complement

☐ difference

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CS636 - Formal Methods (Graded Quiz No. 4) Quiz Start Time: 11:08 PM, 09 January 2025

Question # 2 of 10 (Start time: 11:08:52 PM, 09 January 2025) Total Marks: 1

Individual fields of _____ objects are selected (read) by using dot '.' operator.

Select the correct option

☐ direct

☐ software

☒ composite

☐ indirect

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CS636 - Formal Methods (Graded Quiz No. 4) Quiz Start Time: 11:08 PM, 09 January 2025

Question # 3 of 10 (Start time: 11:09:07 PM, 09 January 2025) Total Marks: 1

A sequence is an ordered collection of _____.

Select the correct option

Reload Math Equations

☐ variables

☐ operators

☐ quantifiers

☒ objects

Question # 4 of 10 (Start time: 11:09:28 PM, 09 January 2025) Total Marks: 1

The elements of a sequence are numbered, starting from _____, from left to right.

Select the correct option

Reload Math Equations

☐ 2

☐ 3

☒ 0

☐ 1

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CS636 - Formal Methods (Graded Quiz No. 4) Quiz Start Time: 11:08 PM, 09 January 2025

Question # 5 of 10 (Start time: 11:09:51 PM, 09 January 2025) Total Marks: 1

The _____ operator gives us the length of the sequence.

Select the correct option

☐ elems

☒ len

☐ height

☐ seq

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CS636 - Formal Methods (Graded Quiz No. 4) Quiz Start Time: 11:08 PM, 09 January 2025

Question # 6 of 10 (Start time: 11:10:13 PM, 09 January 2025) Total Marks: 1

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

Select the correct option

☒ cardinality

☐ subset

☐ membership

☐ assignment

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CS636 - Formal Methods (Graded Quiz No. 4) Quiz Start Time: 11:08 PM, 09 January 2025

Question # 7 of 10 (Start time: 11:10:32 PM, 09 January 2025) Total Marks: 1

A disk is divided into a number of _____.

Select the correct option

statements

tracks

jumps

signals

Reload Math Equations

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CS636 - Formal Methods (Graded Quiz No. 4) Quiz Start Time: 11:08 PM, 09 January 2025

Question # 8 of 10 (Start time: 11:10:47 PM, 09 January 2025) Total Marks: 1

Each track in a disk divided into a number of _____.

Select the correct option

sectors

jumps

signals

tracks

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CS636 - Formal Methods (Graded Quiz No. 4) Quiz Start Time: 11:08 PM, 09 January 2025

Question # 9 of 10 (Start time: 11:11:08 PM, 09 January 2025) Total Marks: 1

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

Select the correct option

☐ sequence

☐ function

☐ formula

☒ set

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CS636 - Formal Methods (Graded Quiz No. 4) Quiz Start Time: 11:08 PM, 09 January 2025

Question # 10 of 10 (Start time: 11:11:37 PM, 09 January 2025) Total Marks: 1

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

Select the correct option

☐ assignment

☒ membership

☐ cardinality

☐ subset

Reload Math Equations