

Learning4help by Waqas

Asslam-o-Alaikum! In this file we'll provide you **MTH202 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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MTH202 - Discrete Mathematics (Quiz No.3) Quiz Start Time: 08:17 PM, 04 January 2025

Question # 1 of 10 (Start time: 08:17:34 PM, 04 January 2025) Total Marks: 1

The predicate which describes the initial state is called the ----- of the algorithm

Select the correct option

<input checked="" type="radio"/>	pre-condition
<input type="radio"/>	post-condition

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The predicate describing the initial state is called -----

Select the correct option

<input type="radio"/>	Out put variables
<input type="radio"/>	None
<input type="radio"/>	post-condition of the algorithm
<input checked="" type="radio"/>	pre-condition of the algorithm

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For every prime number n , $n + 2$ is prime.
Which of the following prime number disproves the above statement.

Select the correct option

- $n=11$
- $n=3$
- $n=7$
- $n=5$

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Question # 4 of 10 (Start time: 08:20:15 PM, 04 January 2025) **Total Marks: 1**

A predicate is a sentence that contains a finite number of -----

Select the correct option

- Constants
- variables

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Question # 5 of 10 (Start time: 08:20:31 PM, 04 January 2025) **Total Marks: 1**

If the guard G and the loop invariant I(k) are both true for an integer $k \geq 0$ before an iteration of the loop, then I(k + 1) is?

Select the correct option

<input type="radio"/>	False
<input type="radio"/>	True

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Question # 6 of 10 (Start time: 08:20:00 PM, 04 January 2025) **Total Marks: 1**

Basis and Inductive steps are part of proof by

Select the correct option

<input checked="" type="radio"/>	mathematical induction
<input type="radio"/>	contraposition
<input type="radio"/>	contradiction
<input type="radio"/>	superposition

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Question # 7 of 10 (Start time: 08:21:40 PM, 04 January 2025) **Total Marks: 1**

Set of prime numbers is finite.

Select the correct option

<input type="radio"/>	True
<input type="radio"/>	False

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The sum of $(6 - 7\sqrt{2})$ and $(6 + 7\sqrt{2})$ is

Select the correct option

<input type="radio"/>	$12 - 14\sqrt{2}$
<input type="radio"/>	$2(6 - 7\sqrt{2})$
<input checked="" type="radio"/>	12
<input type="radio"/>	$2(6 + 7\sqrt{2})$

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The first step of describing algorithms formally is ?

Select the correct option

- An end statement.
- The statements that make the body of the algorithm.
- The output variable names, labeled by data type.
- The name of the algorithm, together with a list of input and output variables.

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Question # 10 of 10 (Start time: 08:23:26 PM, 04 January 2025) **Total Marks: 1**

The method of loop invariants is based on the principle of _____

Select the correct option

- Division algorithm
- Mathematical induction

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Question # 1 of 10 (Start time: 01:21:56 PM, 12 January 2025) Total Marks: 1

GCD of (9, 27) will be _____.

Select the correct option

- 9
- 27
- 5
- 3

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Question # 2 of 10 (Start time: 01:22:21 PM, 12 January 2025) Total Marks: 1

----- is used to determine number of ordered or unordered arrangement of objects.

Select the correct option

- Algorithm
- Counting

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Question # 3 of 10 (Start time: 01:22:47 PM, 12 January 2025) Total Marks: 1

$P(n, 2) = 90$, Which of the followings is the value of n ?

Select the correct option

- 15
- 45
- 90
- 10

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Question # 4 of 10 (Start time: 01:23:24 PM, 12 January 2025) Total Marks: 1

Which of the followings is correct option?

Select the correct option

- $C(n, k) = C(n + k, n - k)$
- $C(n, 0) = 1$
- $C(n, k) + C(n, k + 1) = C(n, k + 1)$
- $C(n, n) = n$

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MTH202 - Discrete Mathematics (Quiz No.4) Quiz Start Time: 01:21 PM, 12 January 2025

Question # 5 of 10 (Start time: 01:23:45 PM, 12 January 2025) Total Marks: 1

Number of combinations of 3-bit string that contain exactly three "0" is

Select the correct option

Reload Math Equations

<input type="radio"/>	6
<input type="radio"/>	7
<input type="radio"/>	8
<input type="radio"/>	1

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MTH202 - Discrete Mathematics (Quiz No.4) Quiz Start Time: 01:21 PM, 12 January 2025

Question # 6 of 10 (Start time: 01:24:14 PM, 12 January 2025) Total Marks: 1

A bit string is a sequence of 0's and 1's.

Select the correct option

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<input checked="" type="radio"/>	True
<input type="radio"/>	False

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Question # 7 of 10 (Start time: 01:24:33 PM, 12 January 2025) **Total Marks: 1**

In how many ways a student can choose one of each of the courses when he is offered 3 mathematics courses, 4 literature courses and 2 history courses.

Select the correct option

- 14
- 288
- 24
- 9

MTH202 - Discrete Mathematics (Quiz No.4) **Quiz Start Time: 01:21 PM, 12 January 2025**

Question # 8 of 10 (Start time: 01:24:54 PM, 12 January 2025) **Total Marks: 1**

A student is to answer five out of nine questions on exams. Find the number of ways that can choose the five questions.

Select the correct option

[Reload Math Equations](#)

- None of these
- 126
- 216
- 316

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MTH202 - Discrete Mathematics (Quiz No.4) Quiz Start Time: 01:21 PM, 12 January 2025

Question # 9 of 10 (Start time: 01:25:43 PM, 12 January 2025) Total Marks: 1

How many 4-bit string contain at least one "1"

Select the correct option [Reload Math Equations](#)

- 12
- 16
- 14
- 15

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MTH202 - Discrete Mathematics (Quiz No.4) Quiz Start Time: 01:21 PM, 12 January 2025

Question # 10 of 10 (Start time: 01:26:07 PM, 12 January 2025) Total Marks: 1

Find the number of the word that can be formed of the letters of the word "ELEVEN".

Select the correct option [Reload Math Equations](#)

- 110
- None of these
- 120
- 220