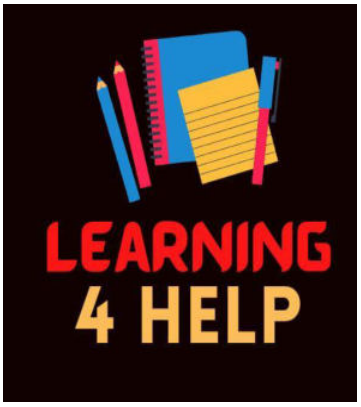
Learning4help by Waqas

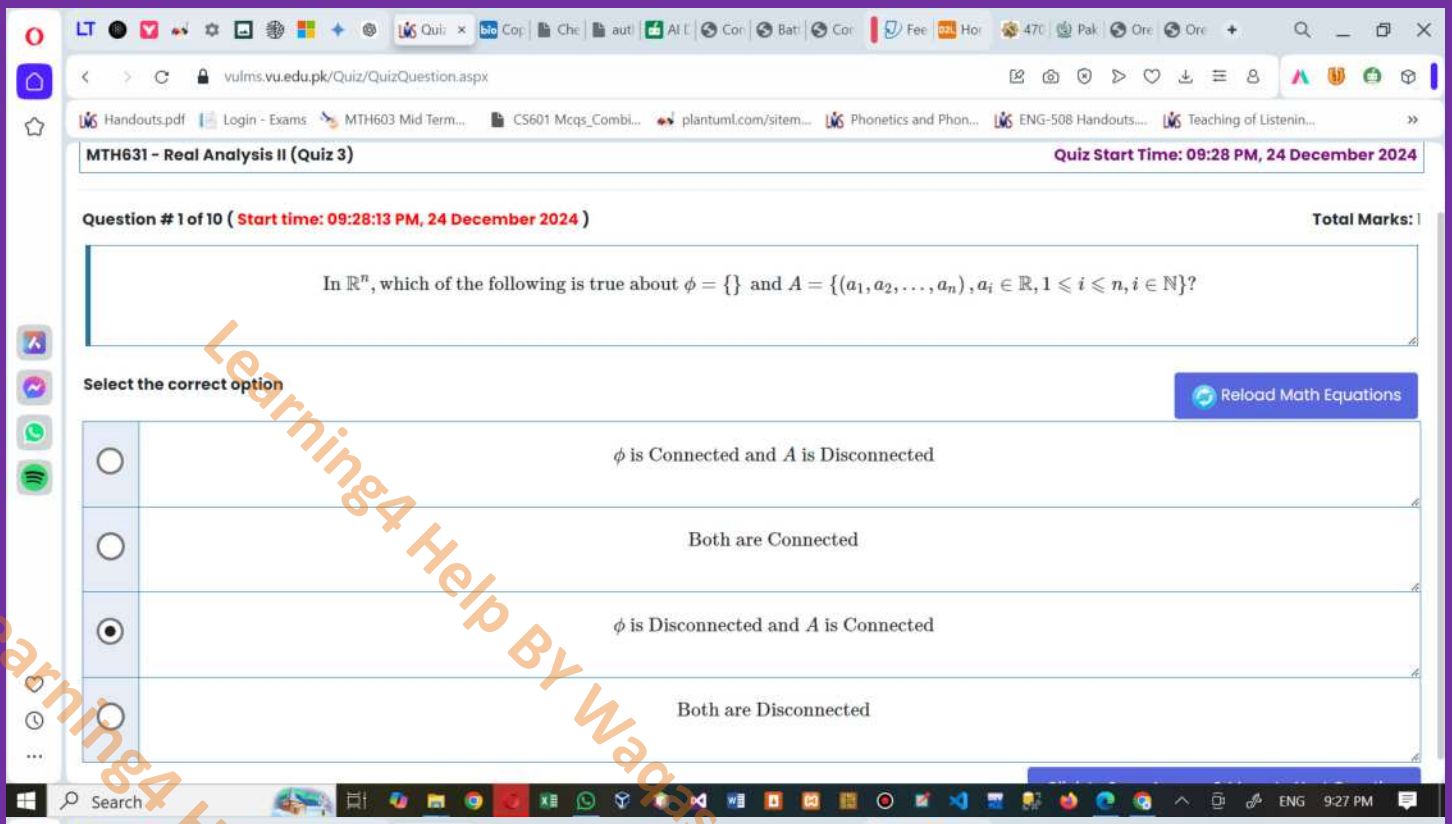
Asslam-o-Alaikum! In this file we'll provide you MTH631 Important Final term MCQs. Must Prepare before Final term Exams. I am not responsible for any answer. Verify Answers yourself too. If you found mistake then inform me.

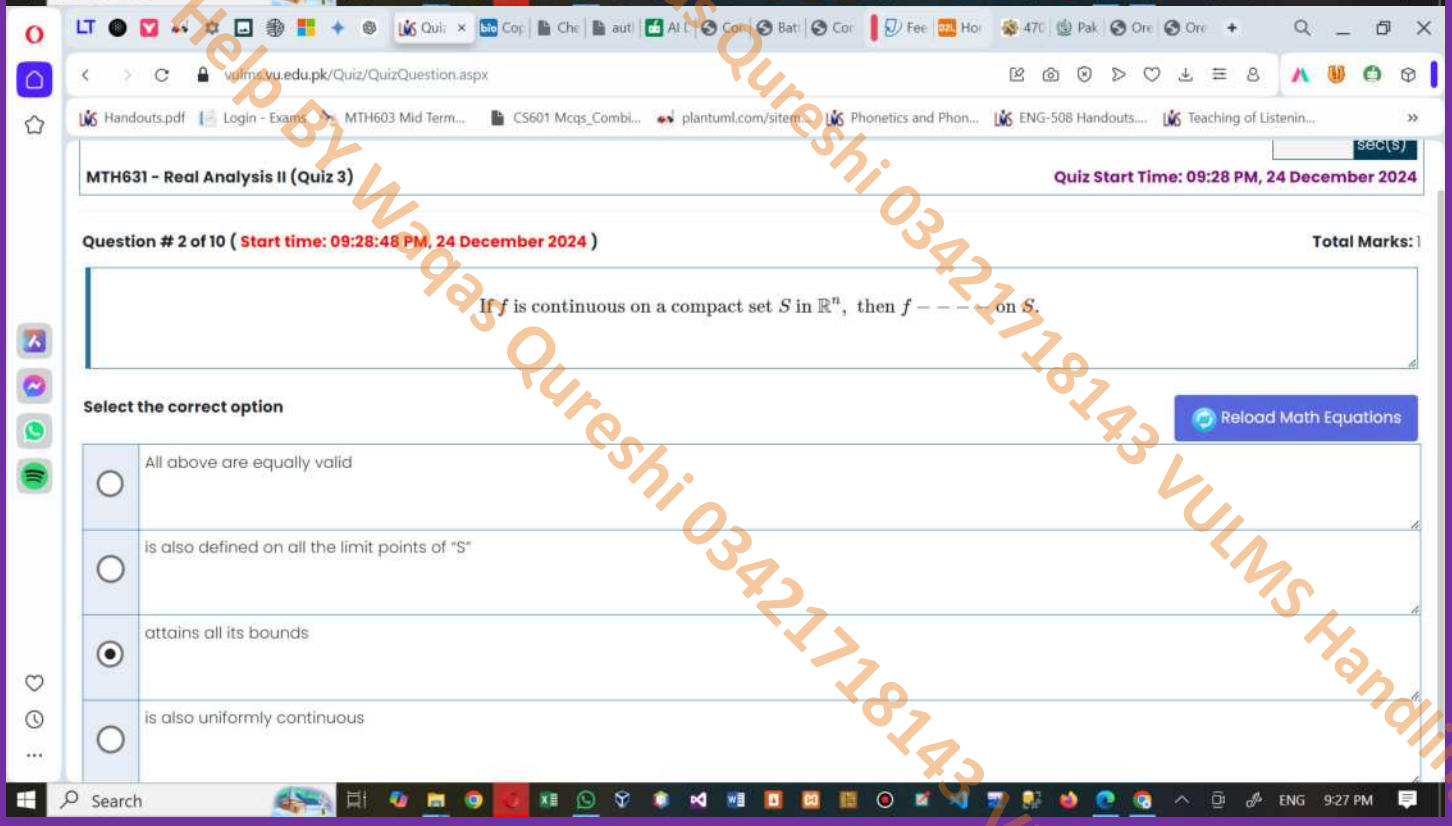
If you found mistake then let us know.

You can contact us on WhatsApp https://wa.me/+923421718143

Or you can send us Gmail: Learning4help@gmail.com







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MTH631 - Real Analysis II (Quiz 3) — **Quiz Start Time: 09:28 PM, 24 December 2024**

Question # 3 of 10 (Start time: 09:29:15 PM, 24 December 2024) — **Total Marks:** 1

Let the function $f(s) = \begin{cases} \frac{\sin s}{s}, s \neq 0 \\ 1, s = 0 \end{cases}$ is continuous over domain _____.

Select the correct option

Reload Math Equations

- Both a & b
- (c) $(0, \infty)$
- (a) $\mathbb{R}$
- (b) $(-\infty, \infty)$

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sec(s)

MTH631 - Real Analysis II (Quiz 3) — **Quiz Start Time: 09:28 PM, 24 December 2024**

Question # 4 of 10 (Start time: 09:29:40 PM, 24 December 2024) — **Total Marks:** 1

Analogous to the derivative of a function of one variable in $\mathbb{R}^2$, the directional derivative of a function f at X_0 in $\mathbb{R}^n$ has - - - - - - value(s).

Select the correct option

Reload Math Equations

- infinite many
- unique
- integral
- multiple

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Question # 5 of 10 (Start time: 09:29:59 PM, 24 December 2024) **Total Marks:** 1

In $\mathbb{R}^n$, $\lim_{X \to X_0} f(X) = -\infty$, if

Select the correct option

Reload Math Equations

- (●) $\lim_{X \to X_0} (-f)(X) = \infty$
- ( ) $\lim_{X \to -X_0} f(X) = \infty$
- ( ) $\lim_{X \to X_0} f(-X) = \infty$
- ( ) $\lim_{-X \to X_0} f(X) = \infty$

Click to Save Answer & Move to Next Question

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MTH631 - Real Analysis II (Quiz 3) **Quiz Start Time: 09:28 PM, 24 December 2024**

Question # 6 of 10 (Start time: 09:30:36 PM, 24 December 2024) **Total Marks:** 1

In $\mathbb{R}^3$, the lines $L_1 : X = (2,-1,5) + \alpha(2,-1,3)$ and $L_2 : X = (2,-1,5) + \beta\left(-5, \frac{5}{2}, -\frac{15}{2}\right)$ are traversed in - - - - - - - - - directions, where $-\infty < \alpha, \beta < \infty$.

Select the correct option

Reload Math Equations

- ( ) perpendicular
- ( ) same
- ( ) opposite
- (●) oblique

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