

 UNIVERSITY OF TECHNOLOGY VNUHCM FACULTY OF AS	MIDTERM EXAM		Semester/ Academic year		221	2022 - 2023
	Course title		Date	October 2022		
	Course ID		Calculus I			
	Duration		MT1003			
		50 mins		Question sheet code		1254
Instructions to students: - There are 6 pages in the exam						
-This is a closed book exam. Only your calculator is allowed. Total available score: 10.						

- Question 01.** Find the domain of function $y = \sqrt{\ln\left(1 + \frac{1}{x}\right)}$
 (A) $x < -1$ (B) None of them (C) $x > 0$ or $x < -1$ (D) $x > 0$
- Question 02.** Find real values of a such that $f(x) = \begin{cases} ax - 2, & x \leq 1 \\ \arctan(\sqrt{x-1}), & x > 1 \end{cases}$ is continuous at $x = 1$.
 (A) None of them (B) 2 (C) 1 (D) -2
- Question 03.** Find real values of a such that $f(x) = \begin{cases} \arctan \frac{x^3 - 2}{x - 1}, & x \neq 1 \\ a, & x = 1 \end{cases}$ is continuous at $x = 1$.
 (A) $-\frac{\pi}{2}$ (B) $\frac{\pi}{2}$ (C) $-\frac{\pi}{4}$ (D) a does not exist
- Question 04.** Find ALL points on the graph of $f(x) = x^3 - 3x$ where the tangent line is parallel to the x -axis.
 (A) None of them (B) (1, -2) and (-1, 2) (C) (1, -2) (D) (1, 2) and (-1, -2)
- Question 05.** Find ALL points on the graph of $f(x) = \frac{1}{x}$ where the tangent line is perpendicular to the line $y = 4x - 3$.
 (A) $\left(1, \frac{1}{2}\right)$ and $\left(-1, -\frac{1}{2}\right)$ (B) $\left(2, \frac{1}{2}\right)$
 (C) None of them (D) $\left(2, \frac{1}{2}\right)$ and $\left(-2, -\frac{1}{2}\right)$
- Question 06.** Find constant A, B, C so that $y = Ax^3 + Bx + C$ satisfies the equation $y''' + 2y'' - 3y' + y = x$.
 (A) None of them (B) $A = 1, B = 1, C = 3$ (C) $A = 0, B = 1, C = 3$ (D) $A = 0, B = 2, C = 3$
- Question 07.** For what values of A and B does $y = Ax \cos x + Bx \sin x$ satisfy $y'' + y = -3 \cos x$?
 (A) $A = 1, B = 2$ (B) $A = 0, B = 1$ (C) $A = 0, B = -\frac{3}{2}$ (D) None of them
- Question 08.** Determine ALL values of x such that $f(x) = \frac{x^2 - 1}{x^2 - 4}$ is not differentiable.
 (A) $x \neq \pm 2$ (B) None of them (C) $x \neq 1$ (D) $x = \pm 2$
- Question 09.** Determine ALL values of x such that $f(x) = \sqrt[3]{(x^2 - 1)^2}$ is not differentiable.
 (A) $x = \pm 2$ (B) $x = \pm 1$ (C) None of them (D) $x \neq 1$
- Question 10.** Find a, b such that function f is differentiable at $x = 0$, if $f(x) = \begin{cases} x^2 + 2x, & x \leq 0 \\ \ln(ax + b), & x > 0 \end{cases}$
 (A) None of them (B) $a = 1, b = 1$ (C) $a = 2, b = 1$ (D) $a = 0, b = 2$
- Question 11.** A particle moving on the x -axis has position $s(t) = t^3 - 9t^2 + 24t + 20$ after an elapsed time of t seconds. What is the total distance travelled by the particle during the first 8 seconds?
 (A) None of them (B) 126 (C) 116 (D) 136

Answer Manual For Calculus A First Course

Y Pai



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