

eExam Question Bank

Coursecode:

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<input type="checkbox"/>	Question Type	Question	A	B	C	D	Answer	Re
<input type="checkbox"/>	MCQ	If Mmarginal cost (MC) $= \frac{dTC}{dQ},$ what is total cost (TC)	$\int MCdQ = C + FC$	$\int MCdQ = VC + C$	$\int MCdQ = C$	$\int MCdQ = VC$	B	
<input type="checkbox"/>	MCQ	If MPC is 0.6, and consumption is 85, determine the consumption function 'C'	$0.4y + 85$	$0.4y + 85 + C$	$0.6y + 85$	$\int 0.4y + 85dx$	C	
<input type="checkbox"/>	MCQ	Use the result in question '7', determine marginal propensity to save (MPS)	$0.88dx$	$0.12dx$	$0.12 \int dx$	0.12	D	
<input type="checkbox"/>	MCQ	What is the marginal propensity to consume (MPC), if $C = 1000 + 0.88y$	0.12	$\int 1000 + 0.88dx$	$\int 1000 + 0.12dx$	0.88	D	
<input type="checkbox"/>	MCQ	Evaluate the marginal expenditure of $p = Q^3 + 4Q + 3$	$4Q^3 + 8Q + 3dx$	$4Q^3 + 8Q + 3$	$\int 4Q^3 + 8Q + 3$	$4Q^3 + 8Q + 3 \int dx$	B	
<input type="checkbox"/>	MCQ	What is the value of total revenue (TR) using the information in questions '3' and '4' ?	#8	#90	#96	$\int 96dx$	C	
<input type="checkbox"/>	MCQ	If q is 4, determine the value of the MR using the outcome in question '3'	$40 - 8q + c$	$40 - 8qdq$	#8	$40 - 8q \int dx$	C	
<input type="checkbox"/>	MCQ	If demand function is $p = 40 - 8q$. Compute marginal revenue (MR) of the function	$40 - 8q$	$80 - 4q$	-4	36	A	
<input type="checkbox"/>	MCQ	Evaluate $\int 9e^{-3x} dx$ using one of the rules of integration	$-3e^{13x} dx$	$-3e^{13x} \int dx$	$\int -3e^{13x} + C$	$-3e^{13x} + C$	D	
<input type="checkbox"/>	MCQ	The difference between the definate and the indefinite integral is,	indefinate integral is definate	definate integral has limits	definate integral depends on single variable	indefinate integral has definate value	B	

<input type="checkbox"/>	MCQ	\[In matrix operation, a matrix of 3by2 dimension is interpreted as ____\]	3 rows, 2 columns	2 rows, 3 columns	2 rows, 2 columns	3 rows, 3 columns	A
<input type="checkbox"/>	MCQ	Solve equation \[y=x^4-6x^3+4x^2-13\] when \[x=4\], and describe the state of the funtion.	Increasing	Falling	None	Stationary	D
<input type="checkbox"/>	MCQ	Solve to indentify the nature of the function \[y=z^3-7z^2+6z-2\], when \[z=4\]	Dcreasing	Increasing	Flat	Asymptotic	A
<input type="checkbox"/>	MCQ	If \[q=3p^2-14p+5\], where \[p=4\], solve the equation to determine the functional form of the equation.	Dcreasing	Static	Increasing	Asymptotic	C
<input type="checkbox"/>	MCQ	Determine the under the curve of the function \[\int_0^{20} \frac{1}{2} x dx\]	0	20	\[\int_0^{20} \frac{1}{2} x dx + C\]	100	D
<input type="checkbox"/>	MCQ	Compute the integral function \[\int_3^8 6x\]	\[\int 6x dx\]	165	11	24	B
<input type="checkbox"/>	MCQ	Use constant rule of integration, evaluate \[\int 1000 dx\]	\[1000 dx\]	\[1000 \int dx\]	\[1000x + C\]	\[1000 \int dx + C\]	C
<input type="checkbox"/>	MCQ	Identify the correct integration notation for \[y=\sqrt{x^3}\]	\[\int \sqrt{x^3} + C\]	\[\sqrt{x^3} \int + C\]	\[\sqrt{x^3} \int dx\]	\[\int \sqrt{x^3} dx\]	D
<input type="checkbox"/>	MCQ	Solve the derivative function \[x^6\], using the rule of integration	\[\frac{1}{7} x^7\]	\[\frac{1}{7} x^7 + C\]	\[\frac{1}{7} x^7 dx\]	\[\frac{1}{7} x^7 \int dx\]	B
<input type="checkbox"/>	MCQ	\[\int x^n dx = \frac{1}{n+1} x^{n+1} + C\] in the rules integration is called	power function rule	constant function rule	exponential function rule	natural function rule	A
<input type="checkbox"/>	MCQ	If \[\frac{1}{7} x^7\] is \[x^6\] using differntiation, \[\frac{1}{7} x^7\] is known as	index function	primitive function	static function	forward function	B
<input type="checkbox"/>	MCQ	\[When an identity matrix is multiply by itself severally, and the result remain the same, such a matrix is known as ____ matrix\]	Identity	Unit	Linear	Idempotent	D
<input type="checkbox"/>	MCQ	\[If the determinat of a matrix is not equal to zero, such a matrix is ____\]	singular	Nonsingular	null	Zero matrix	B
<input type="checkbox"/>	MCQ	\[Crama's Rule in matrix operation, is used to solve n linear equation in n unknown\]	False	Unsure	True	Indiffernt	C
<input type="checkbox"/>	MCQ	If \[y=\left(-12x^2 \right)\], differentiate it using one of the rules of Differentiation.	\[-24\]	\[-24x\]	\[24x^3\]	\[0\]	B

<input type="checkbox"/>	MCQ	\[In order of matrix, where 'm' is equal to 'n', the matrix is considered ____ matrix]	Inverse	Idempotent	Transpose	nonsingular	A
<input type="checkbox"/>	MCQ	Find the derivative of the equation $y = \left(-12x^2 \right)$	$24x$	$-24x$	$12x^2$	$12x^{-2}$	B
<input type="checkbox"/>	MCQ	Given $y = \frac{8}{x}$, solve by finding its derivative	$-8x^{-2}$	$\frac{8}{x^2}$	$8x^{-2}$	$-8x^2$	A
<input type="checkbox"/>	MCQ	Use one of the rules of differentiation to solve the equation $y = 5x^4 \left(3x - 7 \right)$	$75x^3 - 140x^2$	$75x^3 + 140x^2$	$75x^4 + 140x^3$	$75x^4 - 140x^3$	D
<input type="checkbox"/>	MCQ	Differentiate the $\frac{d}{dx} \left(x^{\frac{2}{4}} \right)$	$\frac{1}{2} x^{\frac{1}{2}}$	$\frac{1}{2} x^{-1}$	$\frac{1}{2} x^{\frac{1}{2}}$	$\frac{1}{4}$	C
<input type="checkbox"/>	MCQ	What is the $\frac{d}{dx} \left(100 + \frac{1}{4}x \right)$	$\frac{1}{4}$	$100 \frac{1}{4}x$	$6 \frac{1}{2}x$	$100.025x$	A
<input type="checkbox"/>	MCQ	If the dependent variable is Y and the independent variable is x, find the derivative of the equation $p = 7q^4 - 3q^3$	$4q$	$4q^7$	$10q$	$28q^3 - 9q^2$	D
<input type="checkbox"/>	MCQ	If $y = \pi$, where π is 3.142. Differentiate the function	0	3.1	2	0.5	A
<input type="checkbox"/>	MCQ	Solve the function $y = \frac{1}{x^4}$ using the rule of differentiation	$4x^{-5}$	$-4x^{-5}$	x^{-4}	$4x^{-5}$	B
<input type="checkbox"/>	MCQ	Identify the generalized power function rule in differentiation if $y = Mx^n$	$n(M)x^{n-1}$	$m(N)x^{m-1}$	$n(M)x^{n-1}$	$m(N)x^{m+1}$	C

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