eExam Question Bank

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Question Type	Question	A	B	C
MCQ	Given $f(x) = (7x^4 - 5x^3)$, evaluate $\frac{df(x)}{dx}$	$7x^4 - 5x^3$	$2x^3 - 15x^2$	$28x^2 - 15x^2$
MCQ	Evaluate $\int x^2 e^{3x} dx$	$\frac{e^{3x}}{3}\left(x^2 - \frac{2x}{3} + \frac{2}{9}\right) + c$	$-\frac{e^{3x}}{3}\left(x^2 + \frac{2x}{3} - \frac{2}{9}\right) + c$	$\frac{e^{2x}}{3}\left(x^3 - \frac{x}{4} + \frac{2}{9}\right) + c$
MCQ	Find the volume of a sphere generated by a semicircle $y = \sqrt{(r^2 - x^2)}$ revolving around the x-axis	$-\pi\frac{-r^3}{2}$	$4\pi\frac{r^3}{2}$	$\pi\frac{r^3}{4}$
MCQ	Determine $\int \frac{x^2+1}{(x+2)^3}$	$ln(x+2) + \frac{4}{x+2} - \frac{5}{2(x+3)^2} + c$	$ln(x+2) - \frac{4}{x+2} - \frac{5}{2(x+3)^2} + c$	$-ln(x+2) - \frac{4}{x+2} - \frac{5}{2(x+3)^2}$
MCQ	Evaluate $\int \frac{x+1}{x^2-3x+2} dx$	$3ln(x+2) - 2ln(x+1) + c$	$3ln(x-2) - 2ln(x-1) + c$	$-3ln(x-2) - 2ln(x-1) +$
MCQ	Integrate with respect to x : $\int_1^4 \frac{x+1}{\sqrt{x}} dx$	$\frac{20}{3}$	20	$\frac{3}{20}$
MCQ	Integrate with respect to x : $\int_{-1}^3 \frac{x}{\sqrt{7+x^2}} dx$	$2\sqrt{2}$	$4\sqrt{2}$	$4 - 2\sqrt{2}$
MCQ	Integrate with respect to x : $\int_{-1}^2 \frac{x^2}{(x^3+4)^2} dx$	12	$\frac{1}{2}$	6

	MCQ	Evaluate $\int_{-1}^{2} y^2 + y^{-2} dy$	$\frac{7}{16}$	$\frac{3}{16}$	$\frac{17}{16}$
	MCQ	Find the integral with respect to x $\int \cos x \sin x dx$	$\frac{\sin^2 x}{2} + c$	$\sin 2x + c$	$\frac{\cos^2 x}{2} + c$
	MCQ	Evalute \[\int x^{2}(3-10x^{3})dx\]	\[\frac{1}{150}(3-10x^{3})^5)+c\]	\[\frac{1}{10}(1-10x^{2})^5)+c\]	\[\frac{1}{15}(3-20x^{3})^5)+c\]
	MCQ	Evaluate \[\int 3e^{x}+5\cos (x) -10 \sec^{2}(x) dx\]	\[3e^{2}+5\sin x-10\tan x+c\]	\[3e^{x}+\cos x-10\tan x+c\]	\[3e^{x}+5\sin x-10\sec x+c\]
	MCQ	Evaluate \[\int \cos (6x+4)dx\]	\[\frac{\sin (6x+4)}{6}+c\]	\[\frac{\cos(6x+4)}{6}+c\]	\[\frac{\tan(6x+4)}{6}+c\]
	MCQ	Evaluate \[\int(3x-2)^{6} dx\]	\[\frac{(3x+2)^{7}}{2}+c\]	\[\frac{(3x+2)^{7}}{21}+c\]	\[\frac{(3x-2)^{7}}{21}+c\]
	MCQ	Integrate \[\int (x^{3}+3x^{2}+2x+4)\]	\[\frac{x^{4}}{4}+x^{3}+x^{2}+4x+c\]	\[\frac{x^{4}}{2}-x^{3}+x^{2}+4x+c\]	\[3\frac{x^{4}}{4}+2x^{3}+x+c\]
	MCQ	Differentiate \ [y=3\sqrt(x^2)(2x-x^{2})\] with respect to x	\[y=\frac{10 x^{\frac{2}{3}}}{3}-\frac{8 x^{\frac{5}{3}}}{3}\]	\[y=\frac{10 x^{\frac{2}{3}}}{3}+\frac{8 x^{\frac{5}{3}}}{3}\]	\[y=\frac{5 x^{\frac{2}{3}}}{3}-\frac{4 x^{\frac{5}{3}}}{3}\]
	MCQ	Differentiate with respect to x: \[f(x) = (ax{^3} + bx)\]	$$3a - b$$	$$ax^{2} + b$$	$$3x^{2} + 1$$
	MCQ	Given \[y(x)=x^{4} - 4x^{3} + 3x^{2} -5x \], evaluate \[\frac{d^{4} y}{d x^{4}}\]	30	42	24
	MCQ	Given \ [\frac{2x^{5}+x^{2}-5}{t^{2}}\], find \[\frac{d y}{d x}\] by using the first principle	c\[-t^{-2}+8t^{-3}\]	\[6t+7t^{-3}\]	\[t^{2}+5t^{-3}\]
	MCQ	Find the derivative \ [f(x)=2x^{2}-16x+35\] by using first principle	\[x+16\]	\[4x-16\]	\[3x-5\]
	MCQ	Evaluate the limit \ [\lim {x\rightarrow \infty} \frac{6e^{4x}-e^{-2x}}{8e^{4x}-e^{2x}+3e^{-x}}\]	\[\frac{3}{4}\]	\[\frac{1}{4}\]	\[\frac{1}{2}\]
	MCQ	Evaluate the limit \ [\lim {x\rightarrow -\infty} \frac{x^{2}-5t-9}{2x^{4}+3x^{3}}\]	4	2	0
	MCQ	Evaluate the limit \ [\lim {x\rightarrow \infty} \frac{2x^{4}-x^{2}+8x}{-5x^{4}+7}\]	\[\frac{1}{3}\]	\[\frac{2}{3}\]	\[\frac{1}{2}\]
	MCQ	Evaluate the limit \ [\lim {t\rightarrow 4} \frac{t-\sqrt(3+4)}{4-t}\]	\[\frac{-3}{8}\]	\[\frac{-5}{8}\]	\[\frac{-1}{8}\]

	MCQ	Evaluate the limit \ [\lim_{h\rightarrow 0}\frac{2(-3+h)^{2}-18}{h}\]	12	8	14
	MCQ	Differentiate \ [y=3\sqrt(x^2)(2x-x^{2})\] with respect to x	\[y=\frac{10 x^{\frac{2}{3}}}{3}-\frac{8 x^{\frac{5}{3}}}{3}\]	\[y=\frac{10 x^{\frac{2}{3}}}{3}+\frac{8 x^{\frac{5}{3}}}{3}\]	\[y=\frac{5 x^{\frac{2}{3}}}{3}-\frac{4 x^{\frac{5}{3}}}{3}\]
	MCQ	Differentiate with respect to x: \[f(x) = (ax{^3} + bx)\]	$$3a - b$$	$$ax^{2} + b$$	$$3x^{2} + 1$$
	MCQ	Given \[y(x)=x^{4} - 4x^{3} + 3x^{2} -5x \], evaluate \[\frac{d^{4} y}{d x^{4}}\]	30	42	24
	MCQ	Given \ [\frac{2x^{5}+x^{2}-5}{t^{2}}\], find \[\frac{d y}{d x}\] by using the first principle	c\[-t^{-2}+8t^{-3}\]	\[6t+7t^{-3}\]	\[t^{2}+5t^{-3}\]
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	MCQ	Evaluate the limit \ [\lim {x\rightarrow \infty} \frac{2x^{4}-x^{2}+8x}{-5x^{4}+7}\]	\[\frac{1}{3}\]	\[\frac{2}{3}\]	\[\frac{1}{2}\]
	MCQ	Evaluate the limit \ [\lim {t\rightarrow 4} \frac{t-\sqrt(3+4)}{4-t}\]	\[\frac{-3}{8}\]	\[\frac{-5}{8}\]	\[\frac{-1}{8}\]
	MCQ	Evaluate the limit \ [\lim_{h\rightarrow 0}\frac{2(-3+h)^{2}-18}{h}\]	12	8	14

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