Question	Scheme	Marks
1	$\int 10x^5+6x^3-\frac{3}{x^2}\,\mathrm{d}x=10\times\frac{x^6}{6}+6\times\frac{x^4}{4}-3\times\frac{x^{-1}}{-1}(+c).$	**M1 A1**
	$=\frac{5x^6}{3}+\frac{3x^4}{2}+\frac{3}{x}+c$	**A1A1**
		(4)
		(4 marks)
Notes:		

M1: For raising any power by 1, e.g. $x^5\rightarrow..x^6$, $x^3\rightarrow..x^4$ or $x^{-2}\rightarrow..x^{-1}$.

Accept unprocessed indices such as x^{5+1} etc

A1: For two of the three terms in x correctly integrated (but may be left unsimplified). See below

Accept for this mark terms like $10\times\frac{x^6}{6}$ and $-3\times\frac{x^{-1}}{-1}$

This may be implied by a correct simplified answer.

Do NOT accept for this mark "unprocessed terms" such as $10\times\frac{x^{5+1}}{5+1}$

A1: For two correct and simplified terms in x all on one line.

Accept for this mark equivalent terms such as $3x^{-1}$ for $\frac{3}{x}$ and $1.5x^4$ for $\frac{3x^4}{2}$

Do NOT accept for this mark terms like $-3\times\frac{x^{-1}}{-1}$ and $1.67x^6$

A1: Fully correct and simplified with $+c$ all on one line.

Accept simplified equivalents, e.g. $3x^{-1}$ for $\frac{3}{x}$.

Do NOT accept with spurious symbols like $\left(\frac{5x^6}{3}+\frac{3x^4}{2}+\frac{3}{x}+c\right)\mathrm{d}x$ or $\int\left(\frac{5x^6}{3}+\frac{3x^4}{2}+\frac{3}{x}+c\right)$

Do NOT allow if they then go on and multiply to get rid of fractions