

Time : 01:00:00 Hrs

FOR ANSWERS WHATSAPP - 8056206308

Total Marks : 50

10 x 5 = 50

- 1) Evaluate $\int \frac{3x^2+6x+1}{(x+3)(x^2+1)} dx$
- 2) Evaluate $\int \frac{x^3}{(x^2+1)^3} dx$
- 3) Evaluate $\int \frac{dx}{x(x^3+1)}$
- 4) Evaluate $\int \frac{xe^x}{(1+x)^2} dx$
- 5) Evaluate $\int e^{2x} \left[\frac{2x-1}{4x^2} \right] dx$
- 6) Evaluate $\int \left[\frac{1}{\log x} - \frac{1}{(\log x)^2} \right] dx$
- 7) Evaluate $\int_0^{\frac{\pi}{2}} x \sin x dx$
- 8) Evaluate $\int_1^4 f(x) dx$, where $\begin{cases} 7x+3, & \text{if } 1 \leq x \leq 3 \\ 8x, & \text{if } 3 \leq x \leq 4 \end{cases}$
- 9) If $f(x) = \begin{cases} x^2, & -2 \leq x < 1 \\ x, & 1 \leq x < 2 \\ x-4, & 2 \leq x \leq 4 \end{cases}$, then find the following
 - (i) $\int_{-2}^1 f(x) dx$
 - (ii) $\int_{-2}^1 f(x) dx$
 - (iii) $\int_2^3 f(x) dx$
 - (iv) $\int_{-2}^{1.5} f(x) dx$
 - (v) $\int_1^3 f(x) dx$
- 10) Using integrals as limit of sums, evaluate $\int_2^4 (2x-1) dx$

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