

- d) Evaluate : $\lim_{x \rightarrow 0} \frac{x \tan x}{1 - \cos x}$
- e) Evaluate : $\lim_{x \rightarrow \infty} [\sqrt{x^2 + x + 1} - x]$
- f) Evaluate : $\lim_{x \rightarrow 0} \frac{\log 10 + \log(x + 0.1)}{x}$

4. Solve any **FOUR** of the following :

16

- a) Using first principle of derivatives find derivatives of $f(x) = \sin x$
- b) If u and v are differentiable function of x then prove that,

$$\frac{d}{dx} uv = u \frac{dv}{dx} + v \frac{du}{dx}$$
- c) If $x^3 + y^3 = 4xy$ find $\frac{dy}{dx}$.
- d) Differentiate w.r.t x : $\tan^{-1} \left[\frac{5x}{1 - 6x^2} \right]$
- e) If $y = (\sin^{-1} x)^x$ find $\frac{dy}{dx}$.
- f) If $x = a \cos^3 \theta$, $y = a \sin^3 \theta$ find $\frac{dy}{dx}$

5. Solve any **FOUR** of the following :

16

- a) Evaluate : $\lim_{x \rightarrow 0} \frac{\sqrt{1+x} - \sqrt{1-x}}{x}$
- b) Evaluate : $\lim_{x \rightarrow \infty} \left(\frac{x+1}{x-1} \right)^x$
- c) Using Bisection method find the approximate root of equation $x^2 - 6x + 3 = 0$ [Three iterations only]
- d) Using Regula Falsi method find the root of equation $x^3 - 9x + 1 = 0$ [Three iterations only]
- e) Solve the equation $x^3 - x - 1 = 0$ using Newton Raphson method taking initial root '1' [Three iterations only]
- f) Find the root of equation $x \log_e x = 1.2$ by using Bisection method. [Three iterations only]

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Volume of NaOH added (mL)	pH
4.5	4.6
4.6	4.4
4.7	4.6
4.8	5.9
4.9	5.5
5.0	9.5
5.1	9.5
5.2	9.5
5.3	9.5
5.4	9.5
5.5	9.5

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