

Q2) Attempt any FOUR of the following:

[16]

- a) Prove that for any $x, y \in \mathbb{R}$, $|x + y| \leq |x| + |y|$.
- b) Evaluate : $\lim_{x \rightarrow 0} (1 + x)^{1/x}$.
- c) Find the value of K for which the following function $f(x)$ is continuous.

$$f(x) = \begin{cases} x^2 - 2, & x < 1 \\ Kx - 4, & x \geq 1 \end{cases}$$
- d) Prove that : $|\sin x - \sin y| \leq |x - y|, \forall x, y \in \mathbb{R}$.
- e) State and prove Cauchy's mean value theorem.
- f) Expand $\sin x$ in ascending powers of $\left(x - \frac{\pi}{2}\right)$.

Q3) Attempt any TWO of the following:

[16]

- a)
 - i) If $f(x) = (x - 3) \log x$ then show that the equation $x \log x = 3 - x$ is satisfied by $c \in (1, 3)$.
 - ii) If $y = \frac{x+1}{x^2-4}$ then find y'' .
- b)
 - i) If $y = \sin^{-1}x$ then show that $(1 - x^2) y''_{xx} - 2x y'_{xx} - y''_{xx} = 0$.
 - ii) Discuss the continuity of the function $f(x) = \begin{cases} \frac{x-6}{x-3}, & x < 0 \\ 2, & x = 0 \\ +\sqrt{x^2+4}, & x > 0 \end{cases}$
- c) Let f be continuous function on closed and bounded interval $[a, b]$, such that $f(a) < 0 < f(b)$. Prove that there is at least one c in (a, b) such that $f(c) = 0$.

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CL Gary



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