

UNIT-4

LAQ's

- 1) If $x + y + z = u$, $y + z = uv$, $z = uvw$ then evaluate $\frac{\partial(x,y,z)}{\partial(u,v,w)}$ & $J\left(\frac{u,v,w}{x,y,z}\right)$.
- 2) Show that the functions $u = xy + yz + zx$, $v = x^2 + y^2 + z^2$ and $w = x + y + z$ are functionally related. Find the relation between them.
- 3) Expand $f(x, y) = x^3 + xy^2 + y^3$ in powers of $(x-1)$ and $(y-2)$ using Taylor's series.
- 4) Expand $e^x \sin y$ in powers of x & y using Maclaurin's series.
- 5) Find the maximum and minimum values of $xy + \frac{x^2}{2} + \frac{y^2}{2}$.
- 6) Find three positive numbers whose sum is 100 & whose product is maximum.

SAQ's

- 1) Define total derivative?
- 2) Explain about functional dependence.
- 3) State Taylor's series for the function of two variables.
- 4) Define chain rule?
- 5) If $u = \log(x^2 + y^2)$ then find $\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y}$

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Vladimir Zhivetin



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