King Fahd University of Petroleum and Minerals Department of Mathematics and Statistics Math-201 Semester-161 QUIZ IV

NAME:	Serial No.	ID:
Maximum Marks: 8	Section:23	Time Allowed: 30 minutes
(1) Find and sketch the o	doamin of $f(x, y) = \frac{1}{\ln(x)}$	$\frac{\sqrt{y^2 - x}}{4 - x^2 - y^2)}.$

(2) Use implict differentiation to find $\frac{\partial z}{\partial x}$ if

 $xz = \ln(y + z).$