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

NAME: Serial No. ID:

Maximum Marks: 8 Section:01 Time Allowed: 30 minutes

- (1) Find and sketch the doamin of  $f(x,y) = \frac{\ln(4-x^2-y^2)}{\sqrt{y^2-x}}$ .
- (2) Use implict differentiation to find  $\frac{\partial z}{\partial y}$  if

$$yz = \ln(x + z).$$