

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-131 QUIZ I

NAME:

S.No.

ID:

Maximum Marks: 10

Section:15

Time Allowed: 30 minutes

- (1) Where does the line through $(2, 0, 1)$ and $(4, -1, 2)$ intersects the plane $x - 3y + z = 6$?
- (2) Identify and sketch the surface given by
$$-4x^2 + 8x + y^2 + 2y - \frac{4z^2}{9} = 7.$$
- (3) Find and sketch the domain of the function $f(x, y) = \sqrt{x^2 + y^2 - 1} \ln(4 - x^2 - y^2)$.