

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

NAME:

S.No.

ID:

Maximum Marks: 8

Section:23

Time Allowed: 30 minutes

- (1) (1) Find the equation of a plane through the point $(-1, 2, 1)$ and contains the line of intersection of the planes $x + y - z = 2$ and $2x - y + 3z = 1$.
(2) Identify and sketch the quadratic surface

$$x^2 - 2x + 2y^2 - z^2 = 0.$$