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:01 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

$$x^2 - y^2 + z^2 - 4x - 2y - 2z + 4 = 0.$$