King Fahd University of Petroleum and Minerals Department of Mathematics and Statistics Math-201 Semester-143 QUIZ III

NAME: S.No. ID:

Maximum Marks: 10 Section: 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) Find the distance from the plane x + 2y 3z = 4 to the plane 3x + 6y 9z = 15.
- (3) Name the boundary surfaces and sketch the solid given by the inequalities $1+x^2+z^2 \le y^2 \le 4-x^2-z^2$.