King Fahd University of Petroleum and Minerals Department of Mathematics and
Statistics
Math-201   Semester-163   QUIZ III

NAME: S.No.   ID:
Maximum Marks: 10   Section:06   Time Allowed: 30 minutes

(1) Find symmetric equations of the line that passes through the points $(1, -5, 6)$
and $(3 - 1, 1)$.

(2) Find an equation of the plane that passes through the point $(1, 5, 1)$ and is
perpendicular to the planes $x + 3z = 4$. and $2x + y - 2z = 2$

(3) Identify and sketch the surface $y^2 - x^2 + z^2 + 2x - 4y - 6z + 12 = 0$.

.