Math 201	Quiz 3(a)	Time: 20 minutes			Date: 20-3- 2018
Name	ID		Sr #	Sec 6	Marks(6):-

Q 1. Find an equation of the plane that contains the line $x = 1 + t, y = 2 - t, z = 4 - 3t$ and is parallel to the plane $5x + 2y + z = 1$.

Q2. Describe traces of the surface $x^2 + \frac{y^2}{4} + \frac{z^2}{9} = 1$ in the planes $x = k, y = k, z = k$.

Math 201	Quiz 3(b)	Time: 20 minutes			Date: 20-3- 2018
Name	ID		Sr #	Sec 6	Marks(6):-

Q 1. Find the distance between the parallel planes $10x + 2y - 2z = 7$ and $5x + y - z = 1$.

Q2. Describe traces of the surface $4x^2 + y^2 = z$ in the planes $x = k, y = k, z = k$.

Math 201	Quiz 3(c)	Time: 20 minutes			Date: 20-3- 2018
Name	ID		Sr #	Sec 8	Marks(6):

Q 1. Determine whether the lines L1: $x = y - 1 = \dfrac{z-2}{3}$ and L2: $\dfrac{x-2}{2} = \dfrac{y-3}{-2} = \dfrac{z}{7}$ are skew or not.

Q2. Identify and sketch the surface S: $-x^2 + 4y^2 - z^2 = -4$.

Math 201	Quiz 3(d)	Time: 20 minutes			Date: 20-3- 2018
Name	ID		Sr #	Sec 8	Marks(6):-

Q 1. Find parametric equation for the line of intersection of the planes P1: $x + y + z = 1$ and P2: $x + 2y + +2z = 1$. Also find the angle between the planes.

Q2. Identify and sketch the surface S: $4y^2 + z^2 - x - 16y - 4z + 20 = 0$.