KFUPM--Term 162

Math 201 Quiz 2(a) Time: 20 minutes Date: 28- 3- 17

Name	ID	Sr	Sec. 7	Marks:- $/_7$

Q 1. Find the equation of plane P_1 through $A(3,\ 0,-3)$ and perpendicular to the vector from the origin to A. Find angle between the planes P_1 and P_2: $x - y = 1$.

Q2. Identify and sketch the surface: $4x^2 + 4y^2 + z^2 - 8y - 4z + 4 = 0$.

KFUPM--Term 162

Math 201 Quiz 2(b) Time: 20 minutes Date: 28- 3- 17

Name	ID	Sr	Sec. 7	Marks:- $/_7$

Q 1. Find the equation of the plane that contains the line $x = 4 - t,\ y = 2t - 1,\ z = -3t$ and passes through the point $(3,\ 5, -1)$.

Q2. Identify and sketch the surface: $x^2 + 2z^2 - 6x - y + 10 = 0$.

KFUPM--Term 162

Math 201 Quiz 2(c) Time: 20 minutes Date: 28- 3- 17

Name	ID	Sr	Sec. 13	Marks: $/_7$

Q 1. Find parametric equations and symmetric equations of the line that passes through the points $P(2, 4, -3)$ and $Q(3, -1, 1)$. At what point this line intersects yz-plane?

Q2. Identify and sketch the surface: $x^2 - y^2 + z^2 - 24x - 8y + 4z + 55 = 0$.

KFUPM--Term 162

Math 201 Quiz 2(d) Time: 20 minutes Date: 28- 3- 17

Name	ID	Sr	Sec. 13	Marks:- /7

Q 1. Find parametric equations and symmetric equations of the line that passes through the point $P(-6, 2, 3)$ and parallel to the line $\frac{1}{2}x = \frac{1}{3}y = z + 1$. At what point this line intersects xy-plane?

Q2. Identify and sketch the surface: $x^2 + y^2 - 2x - 6y - z + 10 = 0$.