

CLASS XII

SAMPLE PAPER

MATHS

- 1) Find the image of the point (1,3,4) in the plane $2x-y+z+3= 0$
- 2) Find the direction ratio of a normal to the plane passing through the points 1,-2,3 and -1,2,-1 and parallel to $\frac{x-2}{2} = \frac{y+1}{3} = \frac{z}{4}$.
- 3) Find the equation of plane through the points 1,0,-1 and 3,2,2 and parallel to the line $(x-1)/1 = (y-1)/-2 = (z-2)/3$
- 4) What is the equation of the plane through (1, 1, 1), (-1, 1, -1), and (1, -1, -1)?
- 5) Find the the equation of the plane which passes through the point 4,1,0 and is parallel to the $-yz$ plane
- 6) Find the equation of plane through the point 1,2,3 and parallel to the plane $3x-4y+5z = 0$
- 7) Find the equation of plane through the points -2,2,2 and 2,-2,2 and orthogonal to the plane $3x-2y-z = 6$
- 8) Find the equation of plane through -2,3,4 and perpendicular to the plane $x-y+z=4$ and $2x+3y+4z= 12$
- 9) Find the equation of plane passing through the point 1,2,3 and perpendicular to the line joining the points 2,3,4 and -1,-2,5
- 10) Find the shortest distance between the z axis and the lines $x+y+2z=3$ and $2x+3y+4z=4$