

## CLASS XII MATHEMATICS IMPORTANT QUESTIONS

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1. Distance of a point  $(-1, -5, -10)$  from a plane passing through three points  $(2, 5, -3)$ ,  $(-2, -3, 5)$  and  $(5, 3, -3)$ .
2. Equation of a plane (i) passing through two given points and perpendicular to a given plane  
(ii) through a given point and perpendicular to two planes.  
(iii) through two intersecting lines  
(iv) through the intersection of two planes and perpendicular to a given plane.
3. To find the length/foot of perpendicular and the image of a point in a given plane.

1. Diet Problem (for minimum cost)
  - (i) mixing of two foods
  - (ii) mixing of two types of fertilizers
2. Manufacturing problem (for max. profit)  
Conversion of word problem to an LPP  
Finding feasible region graphically.  
Finding extreme values at the corner points

1. Conditional Probability,
  - (i) multiplication theorem on probability.
  - (ii) Concept of total probability,
  - (iii) Application of Baye`s theorem
2. Probability distribution of independent/Dependent variable,  
finding mean, variance or standard deviation of distributon.
3. Probability of indepent variable using Binomial Dist.