## Exemplar Problem

Three Dimensional Geometry

31. The distance of the plane  $\underline{r}$ .  $\left(\frac{2}{7}\hat{i} + \frac{3}{7}\hat{j} - \frac{6}{7}\hat{k}\right) = 1$  from the origin is.

(A) 1

(B) 7

(C)  $\frac{1}{7}$ 

## (D) None of these

**Ans:** Since we know the equation of a plane as r. n = d where d is the distance of the plane from origin. Now on comparing the given equation of plane with the general equation the distance is 1.

Hence option A is the correct answer.