Step-1

We have

$(x,y,z),(1,1,0)$ and $(1,2,1)$ lie on a plane through the origin.i.e

If $P(x,y,z),Q(1,1,0),R(1,2,1)$ and $O(0,0,0)$ are coplanar.

Then we get $\overrightarrow{OP}$,$\overrightarrow{OQ}$, $\overrightarrow{OR}$ are coplanar vectors and hence $\begin{vmatrix} x & y & z \\ 1 & 1 & 0 \\ 1 & 2 & 1 \end{vmatrix} = 0$

Step-2

And this gives the plane equation as

$x(1-0)-y(1-0)+z(2-1)=0$

$\Rightarrow x-y+z=0$

Thus, the plane equation is $\boxed{x-y+z=0}$