**Q30 what is common between the determination of velocity , and the position of an electron ,the world order ,and sources of information**

V= m/s

Position of electron:

Hesinburg principle (to predict the position of electron)

.

ΔpΔx=h

Here x is the position of electron at any time.

P is the momentum of the electron….

But momentum is given as: p=mv

Where m is the mass and v is the velocity.

**This principle implies that as you try to narrow down the uncertainty in a particle's position (making it more localized), the uncertainty in its momentum (or velocity) increases, and vice versa. This is a manifestation of the wave-like nature of particles in quantum mechanics.**

**Order of the world and source of information:**

**Both world order and reliable sources of information contribute to a common understanding of how the world works. A stable world order relies on countries and people having some level of agreement on basic rules and norms. Similarly, trustworthy sources of information help people form a consistent view of current events and factual matters.**

**Conclusion ‘…**

**Both the world order and information sources can be incomplete. Just like we can't know everything about an electron, our understanding of the world and access to perfect information is always limited.**

**A reliable information sources can influence or even shape the world order. And knowing the velocity of an object helps predict its future position (unlike electrons due to the uncertainty principle).**