



Nobel Prize in Economic Sciences

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Why in News

The **Royal Swedish Academy of Sciences** awarded **Sveriges Riksbank Prize in Economic Sciences, 2020** to **Paul Milgrom and Robert Wilson** (both from the USA) for their work on **commercial auctions**.

Key Points

- **About:**

- Sveriges Riksbank Prize in Economic Sciences, 2020 is given in memory of Alfred Nobel and is popularly (but incorrectly) known as **Nobel Prize for Economics**.

As it is not one of the five Nobel prizes that Alfred Nobel established in his will in 1895, it is not a Nobel Prize.

- It was **created in 1968** by a **donation from Sweden's central bank Sveriges Riksbank to the Nobel Foundation** to commemorate the bank's 300th anniversary and includes a 10 million Swedish kronor award money – roughly Rs 8.33 crore.

It is officially titled the "**Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel**".

- **The 2020 Edition:**

- Milgrom and Wilson **improved the auction theory and invented new auction formats** for auctioning off many interrelated objects simultaneously, on behalf of a seller motivated by **broad societal benefit rather than maximal revenue**.
- Their work will **benefit sellers, buyers and taxpayers around the world**. It will help in auctioning **goods and services**, such as radio frequencies, which are **difficult to sell in traditional ways**.
- Wilson developed the **theory for auctions of objects with a common value** — a value which is uncertain beforehand but, in the end, is the same for everyone. **Examples** include the future value of radio frequencies or the volume of minerals in a particular area.
- Wilson's work showed why rational bidders tend to bid under their own estimate of the worth due to worries over the **“winner's curse”**.
The **winner's curse** is a tendency for the winning bid in an auction to exceed the intrinsic value or true worth of an item.
- Milgrom came up with a more general theory of auctions, by analysing **bidding strategies in different auction forms**.

- **Auction Theory**

- Auction theory studies **how auctions are designed, what rules govern them, how bidders behave and what outcomes are achieved.**
- The oldest form of auction is the auction of a bankrupt person's property to pay off his creditors. This simple design of such an auction is the highest open bidder getting the property (or the commodity in question).
- Over time, the format of auctions has **widened** to include other commodities **such as spectrum for radio or telecom use, carbon dioxide emission credits, electricity or the right to collect the local garbage etc.**
- Different auction models are needed for **depending upon the commodities, purpose of the auction and the entities conducting the auction.**

For e.g. Maximizing the profit may be the motive of a private auction while making a service affordable can be the purpose of auctioning a service by the government. Wrong auction design can lead to a second-hand market where companies trade among themselves with little revenue accruing to the government or little benefit to the public.

- How an auction is designed, has a **tremendous impact not just on the buyers and the sellers but also on the broader society.**
- **Three key variables** need to be understood while designing an auction.
 - **Rules of Auction** i.e. closed/sealed bids, single bids versus multiple bids.
 - **Commodity or service being put up for auction** i.e. how does each bidder value an item.
 - **Uncertainty** regarding which bidder has what information about the object, or even the value another bidder associates with the object.

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