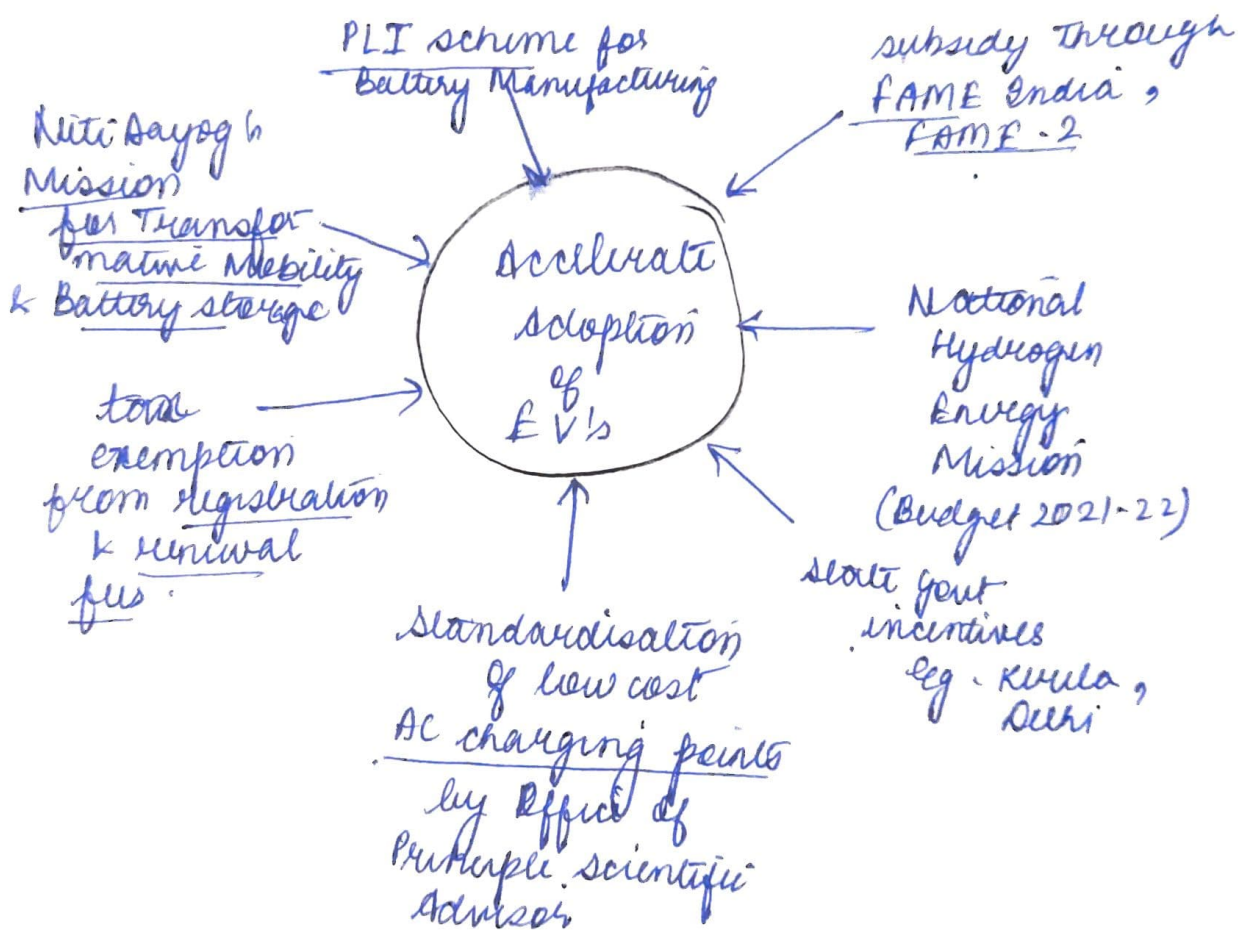


7/6/21

Question) The vision regarding electric vehicles in the country depends on various factors to ensure better development outcomes. Explain

Answer) The government's plan for endorsement of electric vehicles and a number of measures being adopted by it is in line with the environmental commitments.



The above flowchart shows the various measures of government which will accelerate adoption of electric vehicles.

But in order to transform the mobility

medium ~~to~~ with an aim of zero carbon emission, certain other aspects need to be addressed -

- 1) The thermal power plant based AC charging points will not work in line with zero emission targets.
As the power plant mostly uses coal. the emissions will be at par with Internal combustion engine operated vehicles.
- 2) The Hydrogen energy seen as a prospect of fuelling EV's has its own implications
 - ↳ Green Hydrogen production needs to be adopted
 - ↳ To convert Hydrogen's chemical energy into electrical energy, fuel cells need to be commissioned which needs hardly available refilling stations
 - ↳ storage and processing and safety measures of Hydrogen costly & complex.
- 3) Installation of charging stations - 69000 ^{devices} by 2030 according to target is distant destination. General budget allocation and site installation work is required.
- 4) Issue of energy efficiency needs to be addressed so that it can be used for long journey, less frequent and short duration charging.