

Q Give your own views on the areas of improvement required for an electric vehicle to be called as a sustainable transportation

a) Battery technology: one of the main limitations of EV is the range that the vehicle can cover in full charge which is far less than other types of vehicles due to the limited energy density of batteries. Improving battery technology, such as increasing the energy density or developing more efficient charging methods, would allow us to travel further on single charge making them more practical for long distance travel.

b) charging infrastructure: To make EVs more convenient to use, it will be important to build a robust charging infrastructure. This includes both: charging stations in public areas and home charging solutions

c) Manufacturing processes: The production of EVs and components can be resource intensive and have a significant environmental impact. Improving the sustainability of manufacturing process including the use of recycled materials and renewable energy sources can reduce the overall environmental foot print of EVs.

d) Recycling and disposal: Developing a system for recycling and disposing EV batteries and other components will be important



as the number of EVs on the road increases

e) consumer awareness. It will be important to educate consumers about the benefits of EVs and how to properly use and maintain them. This could include information on charging basics and the cases of charging infrastructure