**MODULE 3 – Introduction to Business Of EV**

3.3 Automation, the need for smart E-Mobility

Practice Problems

### Question 1 According to the lecture, E-Mobility is already an old-fashioned term. There is a new buzz word! What is that and why is there a need for it?

1. The buzz word is smart electric mobility. There is a need for this as it connects electrification to automation and through which there is a lot of business to gain.
2. The buzz word is renewable energy. There is a need for this as it connects sustainable energy like wind and solar energy to automation and through which there is a lot of business to gain.
3. The buzz word is autonomous vehicles. There is a need for this as it reduces congestion and connects automation to electrification.

Ans. A

### Question 2 There are two examples quoted in the lecture that supports the practice of autonomous driving. Match the examples to the respective following terms: Passive autonomous driving and Limited driver substitution

**Parkshuttle in the Rotterdam airport has been in operation for 15 years and has never caused an accident.,**

Ans. Passive autonomous driving

**Tesla experienced that, before and after ‘Autosteer’, the number of crashes dropped by 40%,**

Ans. Limited driver substitution

### Question 3 In the lecture, we saw about the self-driving vehicle revolution with the next steps in the future. Here below you see those next steps.

1. Autonomous Vehicle (AV) are a reality in the industrial fleets and new mobility models begin to emerge.
2. AV technology accelerates development of robots for consumer use.
3. AV’s free up to 50 minutes a day for drivers.
4. Vehicle crashes fall by 90%, saving billions of dollars
5. After sales-service landscape changes, insurers will start covering technical failures and supply chain will be redefined

Please selection the option with the correct sequential order.

1. 1, 3, 4, 5, 2
2. 1, 5, 3, 4, 2
3. 1, 2, 5, 4, 3

Ans. B