

PART TWO

Information Technology Technical Question

3 mins

In this part of the exam, you will talk about **Autonomous Vehicles**. The following ideas will help you.

- What technologies are used in autonomous vehicles (e.g., Radar, cameras, sensors)?
- What are the **advantages and disadvantages** of autonomous vehicles?
- Would you use an autonomous Vehicle?
- When do you think autonomous vehicles will be widely available?

2A



2B



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3 mins

In this part of the exam, you will talk about **Autonomous Vehicles**. The following ideas will help you.

- What technologies are used in autonomous vehicles (e.g., Radar, cameras, sensors)?
 - **Lidar (Light Detection and Ranging)**: Uses laser pulses to create a detailed 3D map of the environment.
 - **Radar (Radio Detection and Ranging)**: Utilizes radio waves to detect position and speed.
 - **Cameras**: Capture visual information to identify road signs, traffic lights, lane markings.
 - objects at close range.
 - **Artificial Intelligence (AI) and Machine Learning**
 - **GPS and High-Definition Mapping**: Provide precise location data and detailed maps.
- What are the advantages and disadvantages of autonomous vehicles?

Advantages:

- **Reduced Traffic Congestion**: Optimized driving patterns can ease traffic flow.
- **Increased Safety**: Minimize human errors, which are a common cause of accidents.
- **More Free Time**: Passengers can use travel time productively.
- **Lower Transportation Costs**: Potentially reduce the need for personal car ownership.
- **Environmental Benefits**: Reduce carbon emissions.

Disadvantages:

- **Handling Unpredictable Situations**: Struggle with sudden weather changes.
 - **High Production Costs**: Advanced technology makes these vehicles expensive.
 - **Dependence on Technology**: Failures in technology could lead to accidents.
 - **Job Losses**: Could impact employment in driving-related industries.
 - **Privacy and Security Concerns**: Risks of hacking and misuse of personal data
- Would you use an autonomous vehicle?
 - When do you think autonomous vehicles will be widely available?



2A



2B