What does this question mean?

This question wants students to answer about the main function of Lidar/what can Lidar provide to autonomous car.

Why was that question chosen?

Because the concept ‘Lidar’ is one very important sensor in that case study. Lidar is a must-known concept, and this question is used to check students’ basic understanding of it.

What is the answer to that question?

One possible contribution: provide 3D environmental information of the vehicle’s surrounding. Lidar measures distance from the car to its 360-degree surroundings by illuminating surroundings with pulsed laser light and measuring the reflected pulses with a sensor. Differences in laser return times and wavelengths can then be used to make digital 3D representations of the environment.

What is a question for this year’s case study that uses the same why?

‘Outline the contribution that x (for example, Multitier architecture or failover) makes as one of the main advantages/improvements of CMIS.’