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Discussion: Self-Driving Cars

First Part

Self-driving cars were brought in the market in the 21st century. There are various components that are going to be used in the self-driving cars. These self-driving cars will make use of a wide range of technologies such as radio antennas, ultrasound, cameras and radar so that they can navigate safely on the roads. For instance, Tesla's self-driving cars have been fitted with eight cameras. These cameras have been able to provide 360-degree visibility (Land Mark Dividend, 2021). In addition, the car has been fit with twelve ultrasonic sensors and a radar. The purpose of the radar is to monitor the immediate environment and scan for any hazards. There is a need to have a way through which the self-driving cars can communicate with each other. They will need to use 5G mobile broadband which will allow for data transfer at a faster rate. The 5G broadband seems to be promising to possess the ability to transfer data up to 1,000% faster than the 4G LTE. Such a high speed of connectivity between one self-driven car to another will enhance their functionality (Ralf, 2019).

Part Two

I think that the car should be designed in a way that it swerves-off the road in order to miss the group of people although there is a likely that it might lead to serious harm or death to the driver. The size of the group as well as their ages could not change my answer. This is because no matter the age, there is no any possible reason to run over pedestrians. Additionally, the age of the driver or those of the passengers would also not change my decision – still there is no any reason for running over pedestrians.

The only variable that can change my answer is that of these cars be fitted with the 5G network and the pedestrians walking with their smartphones in their pockets will enable the cars to always sense their presence and distance between them.

Reference

Land Mark Dividend. (2021). Self-Driving Car Technology: How Do Self-Driving Cars Work? . *Landmark Dividend*, Retrieved from: https://www.landmarkdividend.com/self-driving-car/.

Ralf, L. (2019). 5G's Important Role in Autonomous Car Technology. *Machine Design*, Retrieved from: https://www.machinedesign.com/mechanical-motion-systems/article/21837614/5gs-important-role-in-autonomous-car-technology.

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