3 ISO 21448Familiarize yourself with core concepts of ISO 21448 and the scope of the standard.  
Assignment 01-3� Read chapter 1 (Scope) of the ISO/PAS 21448:2019 Standard4 and state whether  
the following items fall within its scope. Provide a rational for your decision.

a. A sensor of an ACC of a car gets blinded by the sun. (1 point)

**Answer:**

**This hazard falls within the scope of this standard because it emanates from a system limitation (insufficiencies of the controller’s model of the environment within which the  
car is) rather than a system malfunction. This is a “Road vehicle - safety of the intended functionality” (SOTIF)**

b. An ECU of a connected car fails due to a security vulnerability exploited by a  
network attack. (1 point)

**Answer:**

**This hazard does not fall within the scope of this standard but rather within the scope of ISO/SAE 21434:“Road Vehicles - Cybersecurity engineering" since ISO/SAE 21434 aims at addressing the hazard associated with the vulnerabilities that can be exploited by attackers because of the external interfaces such as GPS, Wi-Fi, etc in vehicles.**

c. A driver takes his hands off the steering wheel of a level 2 car with both ACC and  
lane keeping active. (1 point)

**Answer:**

**This item falls within the scope of this standard because it is a safety hazard that arises without a system failure. And that is what this standard also aims to address. For a level 2 car, a driver is still expected to keep their hands on the steering wheel and stay attentive to road conditions and intervene where necessary, even though there are internal systems that take care of all aspect of the driving.**