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https://www.100test.com/kao_ti2020/645/2021_2022_2010_E5_B9_B4_E8_81_8C_c91_645064.htm div id="tjjs" class="kcx"> Japanese Car Keeps Watch for Drunk Drivers A concept car developed by Japanese company Nissan¹ has a breathalyzer-like detection system and other instruments that could help keep drunk or over tired drivers off the road. The car ' s sensors check odors inside the car and monitor a driver ' s sweat for traces of alcohol. An in-car computer system can issue an alert or even lock up the ignition system if the driver seems over-the-limit. The air odor sensors are fixed firmly and deeply in the driver and passenger seats , while a detector in the gear-shift knob measures perspiration from the driver ' s palm. Other carmakers have developed similar detection systems. For example , Sweden ' s Volvo² has developed a breathalyzer attached to a car ' s seat belt that drivers must blow into before the engine will start. Nissan ' s new concept vehicle also includes a dashboard-mounted camera that tracks a drivers alertness by monitoring their eyes. It will sound an alarm and issue a spoken warning in Japanese or English if it judges that the driver needs to pull over and rest³. The car technology is still in development , but general manager Kazuhiro Doi says the combination of different detection systems should improve the overall effectiveness of the technology. “ For example , if the gear-shift sensor was bypassed by a passenger using it instead of the driver , the facial recognition system would still be used, ” Doi says. Nissan has no specific

timetable for marketing the system , but aims to use technology to cut the number of fatalities involving its vehicles to half 1995 levels by 2015. The car ' s seat belt can also tighten if drowsiness is detected , while an external camera checks that the car is keeping to its lane properly. However , Doi admits that some of the technology , such as the alcohol odor sensor , should be improved. “ If you drink one beer , it ' s going to register , so we need to study what ' s the appropriate level for the system to activate, ” he says. In the UK4, some research groups are using similar advanced techniques to understand driver behavior and the effectiveness of different road designs.

词汇: breathalyzer n.呼气酒精检测器 alertness/
E5I:tis/n.警惕 sensor/5sensE(r)/ n.传感器 bypass /5baIpB:s/v.绕过
odor/5EudE(r)/ n.气味 facial/5feiFEI/adj.面部的 alert/E5I:t/
adj.警惕的 fatality/ 5teilai/n.死亡事故 ignition/ i^5niFEn/n.点火
tighten/ 5taitEn/v.变紧 , 绑紧 gear-shift knob 换挡把手
drowsiness/5drauzinis/n.昏昏欲睡 perspiration/7pE:spE5reiFEn/n.
出汗 activate/5Aktiveit/v.使活动 , 使激活

dashboard/5dAF7bC:d/n.仪表盘.挡泥板 练习 : 1. Which of the following statements is NOT true of the Japanese concept care A It has a sensor system that could issue a warning if the driver is drunk. B It has sensors that detect traces of alcohol inside the car. C It has sensors locked up in the ignition system. D It has a breathalyzer-like detection system. 2. What has Volvo developed? A The same detection system mentioned in the previous paragraph. B A breathalyzer attached to a car ' s seat belt. C A smart car seat belt. D An intelligent engine. 3. What is the function of the camera

mentioned in Paragraph 4? A It monitors the driver ' s eyes to see if he needs a rest. B It judges if the driver wants to pull over. C It judges if the driver wants to take a rest. D It issues an alarm when the driver speaks.

4. According to Doi A the overall effectiveness of the detection technology has improved. B Nissan is making a timetable to market the detection system. C it is impossible to improve the overall effectiveness of the detection system. D Nissan aims to improve the detection technology to reduce the fatality rate.

5. Which of the following is NOT mentioned in Paragraph 6? A An external camera checks that the car is going properly. B The car will automatically keep to its lane. C The seat belt will tighten when the driver is found drowsy. D The technology of the alcohol odor sensor should be improved.

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