|  |
| --- |
| Propose a ADAS architecture and solution for i) Traffic sign recognition system ii)Driver status monitoring system |
| Describe the safety standard ISO 26262 |
| For an electric vehicle propulsion system the hazardous event is described as “Un intended vehicle acceleration during a low speed maneuver amongst pedestrians”. Perform hazard analysis and risk assessment for this case. |
| Discuss the features of diagnostic protocol KWP2000. |
| During cold cranking the air/fuel ratio is not able to be controlled. List the possible faults. |
| A 2003 Audi A8 was having a problem with rough running which in turn was causing the engine management light to illuminate. List the possible faults. |
| Differentiate between basic and multiplex wiring system. |
| What do you mean by diagnostic systems? Explain on board diagnostics. Explain various safety norms and standards for Automotive System |
| Explain the objectives of on-board diagnostics. |
| Discuss the techniques to improve fault localization. Acceleration during a low speed maneuver amongst pedestrians”. Perform hazard analysis and risk assessment for this case. |
| Discuss different diagnostic protocols. |
| Explain diagnostic tools applied to automotives. |
| During cold cranking the air/fuel ratio is not able to be controlled. List the possible faults. Amongst pedestrians”. Perform hazard analysis and risk assessment for this case. |
| List four safety concerns associated with working on or near the battery. |
| Describe the safety standard ISO 26262. An OEM defines an item as ABS, the system for avoiding wheel lock condition and skidding during hard/panic braking. Perform Hazard analysis and risk assessment in-terms of ASIL and estimate the risk or consequence likelihood. |
| Explain SAE levels of autonomous driving and name the OEM, which has achieved SAE Level-3. |
| Discuss the objectives of on-board diagnostics. A 2022 Audi A8 was having a problem with rough running which in turn was causing the engine management light to illuminate. List the possible faults. |
| During cold cranking the air/fuel ratio is not able to be controlled. List the possible faults.  Discuss the features of diagnostic protocol KWP2000. |