

✓ Congratulations! You passed! TO PASS 80% or higher

Lesson 2: Practice Quiz

TOTAL POINTS 5

/ Correct

1.	Which of the following tasks are associated with perception? (Select all that apply) Identifying road signs	1 / 1 point
	 Correct Correct, perception deals with object identification. 	
	☐ Responding to traffic light state changes✓ Estimating the motion of other vehicles	
	 Correct Correct, perception deals with position and motion estimation. 	
	Planning routes on a map	
2.	Which of the following can be on road objects? (Select all that apply) Vehicles	1 / 1 point
	 ✓ Correct Correct, vehicles can be on road objects. They can also be off road. ☐ Stop signs 	
	☐ Sidewalks ✓ Potholes	
	 Correct Correct, potholes in the drivable surface are on road objects. 	
3.	Which of the following tasks pose challenges to perception? (Select all that apply) Which of the following tasks pose challenges to perception? (Select all that apply)	1 / 1 point

	Having sensors work in adverse weather conditions	
	✓ Correct	
	✓ Handling sensor occlusion and reflection	
	✓ Correct	
	Detecting, tracking and predicting dynamic object motions	
	✓ Correct	
4.	Which of the following sensors are used for ego localization? (Select all that apply)	(1/1 pc
	Inertial Measurement Unit (IMU)	
	Correct Correct, an IMU provide acceleration and rotation rate measurements from accelerometers and gyroscopes, and can be used to estimate vehicle orientation and aid in localization in general.	
	Barometers	
	Radar	
	Global Navigation Satellite System (GNSS)	
	Correct Correct, a GNSS sensor provides position and velocity measurements, and can be used to estimate vehicle position and orientation for localization.	
5.	Which of the following objects would be relevant for perception in adaptive cruise control?	1/1p
	Cane markings	
	Road signs	
	Traffic lightsOther vehicles	
	 Correct Correct, adaptive cruise control detects vehicles ahead to control speed and to maintain safe driving distances. 	