

Natural Laws

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. Modern seat belts
 - a. are installed only when requested.
 - b. are passive restraint devices.
 - c. should fit somewhat loosely across the chest.
 - d. are three-point lap and shoulder safety belts.
2. An important factor in maintaining traction is
 - a. overinflated tires.
 - b. having a brand new vehicle.
 - c. a clean vehicle.
 - d. good shock absorbers.
3. Energy of motion is another way of expressing
 - a. kinetic energy.
 - b. effect of wind on vehicle control.
 - c. mileage rating of a vehicle.
 - d. the way vehicle bodies are designed.
4. In wet weather, with temperatures near the freezing point,
 - a. a highway roadway freezes before a bridge roadway.
 - b. a bridge roadway freezes before a highway roadway.
 - c. bridge and highway roadways will freeze at the same time.
 - d. bridge and highway roadways will not freeze.
5. The second collision occurs when
 - a. a vehicle strikes a parked vehicle.
 - b. the occupants hit the inside of the vehicle after a collision.
 - c. a vehicle loses control and spins out.
 - d. a vehicle is struck by a vehicle following it.
6. The higher the speed of your vehicle, the more
 - a. you will lose traction.
 - b. it will tend to go straight.
 - c. it will tend to drift sideways.
 - d. you will feel the bumps in the pavement.
7. What rule is used to estimate your total stopping distance under ideal conditions?
 - a. 4-second rule
 - b. 2-second following-distance rule
 - c. 12-second visual lead rule
 - d. 3-second travel rule
8. When braking and turning, you use
 - a. all four wheels of traction.
 - b. only the outside edge of your tires.
 - c. split traction.
 - d. additional traction.
9. A vehicle driven into a curve tends to
 - a. go in a straight line.
 - b. store energy of motion.
 - c. increase speed.
 - d. increase traction.
10. A banked curve
 - a. is cost prohibitive.
 - b. is higher on the inside than on the outside.
 - c. is higher on the outside than on the inside.
 - d. causes your vehicle to move to the middle of the curve.
11. Air bags are designed to
 - a. be used with safety belts.
 - b. protect in all types of collisions.
 - c. take up most of the room on your dashboard for safety purposes.
 - d. protect all occupants of the vehicle, front and back.
12. How many collisions occur when a vehicle hits a solid object?
 - a. two
 - b. zero
 - c. three
 - d. one

13. High energy of motion may cause a vehicle to
 - a. go around a tight curve successfully.
 - b. miss a tight curve.
 - c. bank a curve.
 - d. maintain good traction in a tight curve.
14. A restraint that provides protection without having to be handled by the occupant is called
 - a. a passive restraint.
 - b. a semipassive restraint.
 - c. an active restraint.
 - d. a semiactive restraint.
15. Large vehicles, such as trucks and buses, have
 - a. good turning ability for quick turns.
 - b. slow stopping ability.
 - c. fast accelerating ability.
 - d. quick braking ability.
16. What are the most important parts of the control system?
 - a. four tires
 - b. brakes
 - c. the steering wheel and column
 - d. the clutch and accelerator
17. Braking distance
 - a. increases as speed decreases.
 - b. decreases as speed increases.
 - c. doubles if speed doubles.
 - d. increases as speed increases.
18. A rear-end collision involved a 20-year-old vehicle. The driver and front-seat passenger both sustained serious neck injuries. Which modern energy-absorbing device protects against such injuries?
 - a. head restraints
 - b. front and rear crush areas
 - c. reinforced windshield
 - d. padded dash and recessed knobs
19. Factors that affect traction include
 - a. tires, shock absorbers, and steering system.
 - b. length and width of the road.
 - c. presence of other HTS users.
 - d. oil, oil filter, and coolant level.
20. You drive through a curve at a speed higher than the posted speed. Your vehicle
 - a. can add traction as needed to stay on the roadway.
 - b. needs more traction to stay on the roadway.
 - c. will adjust to the traction available.
 - d. will stay on the road.
21. The best place to adjust speed to steer through a curve is
 - a. before entering the curve.
 - b. at the center of the curve.
 - c. about halfway through the curve.
 - d. just before you leave the curve.
22. A properly installed child safety seat is
 - a. required in all states for children up to a certain age.
 - b. a matter of the parents' personal choice to use or not to use.
 - c. good protection for any age child.
 - d. a passive restraint.
23. A small vehicle
 - a. takes a long distance to stop.
 - b. is the safest of all vehicles.
 - c. uses more kinetic energy to stop than a large vehicle.
 - d. can accelerate and stop more quickly than a large vehicle.
24. Side door beams provide protection
 - a. in all collisions.
 - b. for child-restraint seats.
 - c. for your pets.
 - d. in collisions when hit at an angle.
25. Three factors that determine force of impact are
 - a. speed, weight, and distance between impact and stopping.
 - b. traction, brakes, and steering.
 - c. tire tread, visibility, and four-wheel drive.
 - d. shock absorbers, tire pressure, and roadway surface.