

Item Bank ID 416495 Item Bank Name Automotive Systems and Testing

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
Which one of the following is not a type of stub axle?	Elliot	Reversed Elliot	Lamoine	Upright Lamoine
Which of the following statements is true about steering a typical road vehicle?	the inner wheel has to be rotated by a smaller angle than the outer wheel.	the inner wheel has to travel on a path of smaller radius than the outer wheel.	the outer wheel has to be rotated by a larger angle than the inner wheel.	the outer wheel has to travel on a path of smaller radius than the inner wheel.
Which one of the following is not a typical power-assist steering system in road vehicles?	Pneumatic.	Hydraulic	Electro-Hydraulic.	Electric
The mechanical advantage in a Pitman arm type steering system is typically provided by a	bevel gear	spur gear	helical gear	worm gear
Which one of the following is not correct about a recirculating ball steering box?	It reduces friction	It reduces wear	The worm is directly connected to the sector gear	The sector gear is connected to the Pitman arm
Which types of wheels cannot be used with a tubeless tire?	Disc wheel	Light alloy wheel	Wire wheel	Composite wheel

Which one of the following is a limitation of a disc brake when compared with a drum brake?	It has lower sensitivity to brake lining friction coefficient	It has better heat dissipation characteristics	It is less sensitive to temperature increase	It requires more actuation force to obtain a desired brake force
What among the following is not a reason for choosing a disc brake in the front wheels of most passenger cars?	More normal load is available on the front wheels	More potential brake force is available on the front wheels	Disc brake has a lower brake factor	The output brake force from a disc brake varies less with friction lining coefficient
Which one of the following is not a desirable property of brake fluids?	High boiling point	High compressibility	Low toxicity	Good lubricating property
In a car ABS, each wheel's brake can be independently controlled in the	one channel configuration	two channel configuration	three channel configuration	four channel configuration
When the rear wheels of a passenger car locks,	steering ability is lost	there is risk of the car losing directional stability	there is a risk of jack knifing	the car continues to travel along its same heading
The process of removing air from hydraulic brake system is called as	energization	servo action	bleeding	release
If the weight and speed of the vehicle is doubled then brake power must be	increased 4 times	increased 6 times	increased 8 times	increased 12 times

Capacity of a brake does not depend upon	Unit pressure between the braking surfaces	Ability of the brake to store heat equivalent to the energy being absorbed	Coefficient of friction between the braking surfaces	Projected area of the braking surfaces
The maximum brake torque that can be absorbed by the lining or pad does not depend on one of the following	gross vehicle weight	front and rear braking ratio	maximum attainable speed	stopping distance
Which one of the following statement is not true for reducing fuel consumption?	Reducing driving resistance	Improving the efficiency of the transmission	Adaptive control of gear ratio selection	reducing travel range
Which one of the following is not a parameter for deciding fuel economy?	Weight of the vehicle	Aerodynamic resistance	Driver behaviour	stopping distance
In scale model testing, test must have	Geometric similarity	Kinematic similarity	Dynamic similarity	All of the above
In SLA double wishbone suspension system generally	upper arm is longer in length and lower arm is shorter in length	upper arm is shorter in length and lower arm is shorter in length	upper arm is shorter in length and lower arm is longer in length	upper arm is longer in length and lower arm is longer in length
Following is the example of navigation system	CRDE	GPS	CRABI	OBD