

Unit 10 - Week 9

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Assignment 9

The due date for submitting this assignment has passed. **Due on 2020-04-01, 23:59 IST.**
 As per our records you have not submitted this assignment.

- The _____ valve is mounted close to the rear axle and regulates air flow to the rear brake chambers in an air brake system. 1 point
 - quick release valve
 - relay
 - treadle
 - primary

No, the answer is incorrect.
Score: 0
Accepted Answers:
relay
- The air pressure in the front brake chambers is regulated by the _____ circuit of the treadle valve? 1 point
 - primary
 - secondary
 - transfer
 - relay

No, the answer is incorrect.
Score: 0
Accepted Answers:
secondary
- Which one of the following statements is true when the treadle valve is not applied? 1 point
 - The delivery and the exhaust port are not connected.
 - The supply port and the exhaust port are connected.
 - The delivery port and the supply port are connected.
 - The supply port and the delivery port are not connected.

No, the answer is incorrect.
Score: 0
Accepted Answers:
The supply port and the delivery port are not connected.
- Which one of the following is not a component of the S-cam brake? 1 point
 - Push rod.
 - Slack adjuster.
 - Caliper.
 - Cam roller.

No, the answer is incorrect.
Score: 0
Accepted Answers:
Caliper.
- The force output from a brake chamber _____ once the push rod stroke exceeds the readjustment limit. 1 point
 - decreases significantly
 - increases significantly
 - remains the same

No, the answer is incorrect.
Score: 0
Accepted Answers:
decreases significantly
- The parking brake functionality in an air brake system is typically achieved by 1 point
 - supplying pressurized air to the service brake chamber.
 - exhausting pressurized air from the service brake chamber.
 - supplying pressurized air to the spring brake chamber.
 - exhausting pressurized air from the spring brake chamber.

No, the answer is incorrect.
Score: 0
Accepted Answers:
exhausting pressurized air from the spring brake chamber.
- The wheel slip ratio is the ratio of 1 point
 - the vehicle longitudinal speed to the wheel circumferential speed.
 - the vehicle longitudinal speed to the difference between the vehicle longitudinal speed and the wheel circumferential speed.
 - the difference between the vehicle longitudinal speed and the wheel circumferential speed to the vehicle longitudinal speed.
 - the wheel circumferential speed to the vehicle longitudinal speed.

No, the answer is incorrect.
Score: 0
Accepted Answers:
the difference between the vehicle longitudinal speed and the wheel circumferential speed to the vehicle longitudinal speed.
- On which one of the following does the longitudinal friction coefficient typically not depend on? 1 point
 - wheel slip ratio.
 - tyre radius.
 - wheel camber.
 - tyre slip angle.

No, the answer is incorrect.
Score: 0
Accepted Answers:
tyre radius.
- Compared with a dry road surface, the friction ellipse _____ for a wet road surface. 1 point
 - expands
 - remain the same
 - shrinks

No, the answer is incorrect.
Score: 0
Accepted Answers:
shrinks
- The value of the wheel slip ratio when the peak friction coefficient is realized at a tyre-road interface would be 1 point
 - 0.
 - 1.
 - between 0 and 1.
 - above 1.

No, the answer is incorrect.
Score: 0
Accepted Answers:
between 0 and 1.
- When the rear wheels of a passenger car locks, 1 point
 - steering ability is lost.
 - there is risk of the car loosing directional stability.
 - there is a risk of jack knifing.
 - the car continues to travel along its same heading.

No, the answer is incorrect.
Score: 0
Accepted Answers:
there is risk of the car loosing directional stability.
- When the rear wheels of a semitrailer in a tractor-semitrailer lock 1 point
 - steering ability is lost.
 - the vehicle continues to travel along its same heading.
 - there is a risk of jack knifing.
 - there is risk of trailer swing.

No, the answer is incorrect.
Score: 0
Accepted Answers:
there is risk of trailer swing.
- In a car ABS, each wheel's brake can be independently controlled in the 1 point
 - one channel configuration.
 - two channel configuration.
 - three channel configuration.
 - four channel configuration.

No, the answer is incorrect.
Score: 0
Accepted Answers:
four channel configuration.
- In a car ABS, wheel lock can be avoided on a split-mu surface by 1 point
 - select low control.
 - single wheel control.
 - select high control.

No, the answer is incorrect.
Score: 0
Accepted Answers:
select low control.
- In a car ABS, the mode of the hydraulic modulator in which the wheel cylinder pressure is held constant irrespective of the master cylinder pressure is the 1 point
 - open mode.
 - hold mode.
 - release mode.

No, the answer is incorrect.
Score: 0
Accepted Answers:
hold mode.