Air Brake Theory Assessment

1.	The lov	w air pressure warning signal will come on before the pressure in the air tanks falls below:
	a.	75-80 psi
	b.	55-75 psi
	c.	70-75 psi
	d.	90-100 psi
2.	With air brake vehicles, the parking brake should be used:	
	a.	As little as possible
	b.	Only during pre-trip inspections
	c.	Whenever you leave the vehicle unattended
3.	The pro	oper use of the brakes when going down a long steep grade after selecting a proper gear
	is to brake until your speed is about below the posted speed limit and release your brake.	
	a.	15 mph
	b.	10 mph
	C.	5 mph
	To check the free play of manual slack adjusters of S-cam brakes, you should park on:	
	a.	Level ground and apply the parking brakes, then apply service brakes
	b.	Level ground and drain off air pressure before checking adjustment
	C.	Level ground, chock the wheels and release the parking brakes
	The most important thing to do when a low air pressure warning comes on is:	
	a.	Stop and safely park as soon as possible
	b.	Downshift
	C.	The state of the s
	Excessive use of the service brakes results in overheating which can lead to:	
	a.	Proper adjustment of s-cam
	b.	Increase contact between the brake drums and linings
	C.	Expansion of the brake drums
	Modern air brakes combine three different systems. They are the service, the parking, and the	
	bra	akes.
	_	Drum
	b.	Emergency
	С.	Foot
8.	How should you check that your service brakes are working properly?	
	a.	Park on level ground, wait until normal air pressure is reached, release the parking brake

and move forward slowly at about 5 mph. Then apply the brakes firmly
b. Park on slight grade, drain off air pressure, set parking brake and check to the

correct amount of air pressure to do so and shut the engine off.

c. Park on level ground, chock the wheels, engage the parking brakes when you have the

movement.

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- 9. Some air brake systems have an alcohol evaporator. What may happen if you don't keep the proper level of alcohol?
 - a. Ice may form in the air brake valves and cause brake failure
 - b. The s-cam may not take back when you release the brake pedal
 - c. Ice may form on the brake drums and wear them out.
- 10. Your truck or bus has a dual air brake system. If a low air pressure warning comes on for only one system, what should you do?
 - a. Reduce your speed and drive to the nearest garage for repairs
 - b. Reduce your speed and test the remaining system while under way
 - c. Stop right away and safely park. Continue only after the system is fixed.
- 11. Emergency stab braking is:
 - a. When you press hard on a brake pedal and apply hand valve while you stop
 - b. Press on the brake pedal as hard as you can, release the brakes when the wheels lock, put on the brakes again when the wheels start rolling
 - c. Use light steady pressure on the brake pedal
- 12. What is a "wig wag"
 - a. A mechanical arm that signals low air pressure
 - b. Part of the stop light system
 - c. A spring mount for hair pieces
- 13. The brake system that applies and releases the brakes when the driver uses the brake pedal is the brake system.
 - a. Service
 - b. Emergency
 - c. Parking
- 14. Your truck has a dual air system and one of the system loses its pressure. What will happen?
 - a. Brake drums will not be fully pressurized
 - b. The manual slack adjusters of the s-cam brakes will not be set properly
 - c. Either the front or back brake will not be fully operational
- 15. Your brakes are fading when:
 - a. The brake pedal feels spongy when you apply pressure
 - b. You have to push harder on a brake pedal to control your speed on a downgrade
 - c. Less pressure is needed on the brake pedal for each stop
- 16. Which of the following will be true about your brake function if your ABS fails?
 - a. It may cause problems with other mechanical systems and possibly pose a huge fire risk
 - b. You will still have normal brake function and will just need to get the ABS repaired soon
 - c. It will slow your truck or bus and force you to pull over
- 17. Which of these is NOT a proper time to apply the parking brakes?
 - a. If you are going to test the parking brake to make sure that it holds the vehicle
 - b. If the brakes are very hot (e.g. just after coming down a steep grade)
 - c. If you will be stopping for only one hour

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- 18. The air compressor governor controls:
 - a. The speed of the air compressor
 - b. When air is pumped into the air tanks
 - c. Air pressure applied to the brakes
- 19. The safety valve discharges automatically at the pressure of:
 - a. 100 psi
 - b. 150 psi
 - c. 50 psi
- 20. All air brake equipped vehicles have:
 - a. An air usage gauge
 - b. A supply pressure gauge
 - c. A backup hydraulic system