AIR BRAKE

1 Repeatedly partially pressing and releasing the brake pedal may result in:
A A loss of brake air pressure.
B A build up of brake air pressure.
C No change of brake air pressure.
2. If you must make an emergency stop, brake so you:
A Can steer hard while braking hard.
B Can steer and so your vehicle stays in a straight line.
C Use the hand brake first.
3. The most common type of foundation brake found on heavy vehicles is the:
A Wedge drum.
B S-cam drum.
C Disc brake.
4. You have a major leak in the service line and put on the brakes. Service air pressure will escape and cause the:
A trailer tank pressure to be lost.
B tractor spring brakes to lock on.
C trailer emergency brakes to come on.
5. If your truck has a properly functioning dual air brake system and minimum size air tanks the air pressure should build up from 85 to 100 psi within how many seconds?
A 30
B 45
C 60
6. The proper use of the brakes when going down a long steep grade after selecting a proper gear is to brake until your speed is aboutmph below the posted speed for your safety and release your brakes.
A 5
B 10

7. To check the free play of manual slack adjusters of S-cam brakes, you should park on:

A Level ground. chock the wheels and release the parking brakes.

B Level ground and apply the parking brakes. then apply service brakes.

C Level ground and drain off air pressure before checking the adjustment.

8. If your vehicle has an alcohol evaporator, ifs there to: your brakes.

A Eliminate the need for daily tank draining.

B Boost tank pressure the same way that turbocharges boost engine.

C Reduce the risk of icing in air brake valves in cold weather.

9. 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 Etither the front or back brake will not be fully operational.

10. Why should you drain water from compressed air tanks?

A Water low boiling point reduces braking power.

B Water can freeze in cold weather and cause brake failure.

C To keep heat from air compressor oil.

11 If your truck or bus has dual parking control valves, you can use pressure from a separate tank to:

A Balance the service brake system when you are parked.

B Stay parked twice as long without using up service air pressure.

C Release the spring emergency/parking brakes to move a short distance.

12. If you must make an emergency stop, you should brakes so yoy:

A Use the hand brake before the brake pedal.

B Can steer and so your vehicle stays in a straight line.

C Use the full power of the brakes to lock them. Lip

A is in the air tanks.
B You have used in this trip.
C Is going to the brake chambers.
14. The application pressure gauge shows how much air pressure you:
A Have in the air tanks.
B Are applying to the brakes
C Have in a modulating control valve.
15. The spring brakes used on tractors and straight trucks will bring your truck to a stop when the air pressure drops belowpsi.
A 20
B 60
C 100
16. The air leakage rate for combination vehicles (engine off, brakes on) should be less then psi per minute.
A 2
B 3
C 4
17. How should you check that your service brakes are working properly?
A Park on slight grade, drain off air pressure, set parking brake and check to the movement.
B Park on a level ground, chock the wheels, engage the parking brakes when you have the correct amount of air pressure to do so and shut the engine off.
C 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 using the brake pedal.

18. Excessive use of the service brakes results in overheating which can lead to:

B Increased contact between the brake drums and brake linings.

A Improper adjustment of the S-cam.

13. The supply pressure gauge shows how much pressure:

C Expansion of the brake drums.
19. The supply pressure gauge shows how much pressure:
A Is in the air tanks.
B Tractor brake lines.
C Trailer brake lines.
20. Total stopping distance for air brakes is longer than that for hydraulic brakes due todistance.
A brake lag
B reaction
C effective braking
21. The use of air brakes on a long and steep downgrade under normal conditions is only a supplement to:
A The use of the spring brakes.
B The use of the front brakes limiting valve.
C The braking effect of the engine.
22. Annation and the state of t

22. Any time you park, use the parking brakes, except:

A If the brakes are very hot (e.g., after just coming down a steep grade).

B If you are going to test the parking brake make sure that it holds the vehicle.

C If you will only be stopped for less then one hour. IA

23. If your vehicle gets stuck on a raised railroad-highway crossing, you should:

A Get out of the vehicle and away from the tracks.

B Turn on your four-way flashers.

C Use reverse gear to back up off the crossing.

24. 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.
25. 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 Bring your vehicle to a complete stop right away and safely park. Continue only after the system is fixed.
B Reduce your speed, and test the remaining system while under way.
C Reduce your speed, and drive to the nearest garage for repairs.
26. The safety valve is set to automatically reduce pressure atpsi.
A 50
B 100
27. Some air brake systems have an alcohol evaporator. What may happen if you don't keep the proper level of an alcohol?
A The S-cam may not take back when you release the brake pedal.
B Ice may form in the air storage tank and cause a brake failure.
C Ice may form on the brake drums and wear them out.
C 150
28. Under normal conditions in order to engage the parking brakes driver:
A Turn off the engine
B Let the air out of air brake system.
C Be sure that the air brake system is fully pressurized.
29. Parking or emergency brakes of trucks and buses can be legally held on bypressure.
A spring
B air
C fluid
30. All air brake equipped vehicles have:
A A supply pressure gauge.
B An air usage gauge.

36. The S-cam:

A Controls the flow air to each of the brake chambers.

B Pulls the brake shoes away from the drum and allow the wheels to roll freely.
C Forces the brake shoes against the inside of the brake drum.
37. Why should you drain water from compressed air tanks?
A The boiling point reduces braking power.
B Water can freeze in cold weather and cause brake failure.
C Water cools the compressor too much.
38. The air brake lag distance at 55 mph on dry pavement adds aboutfeet.
A 12 feet.
B 32 feet.
C 52 feet.
39. When is it OK to leave your truck unattended without applying the parking brakes and choking the wheels?
A Never.
B If you will be away from the truck for a few minutes.
C If you are conducting a pre-trip inspection.
40. The brake system that applies and releases the brakes when the driver uses the brake pedal is the brakesystem.
A emergency
B service
C Parking
41. Which of these is NOT a proper time to apply the parking brakes?
A To brake vehicle very hard, in other word when coming down the steep grade.
B To use parking brakes if you park for less than 1 hour.
C If you are going to use the parking brakes you need to make sure that they will hold the vehicle.
42. Air braking takes more time than hydraulic braking because air:
A Brakes use different brake drums.

B Takes more time to flow through the lines than hydraulic fluid.
C Brakes require heavier return springs.
43. A straight truck or bus air brake system should not leak at the rate of more thanpsi per minute with the engine off and the brakes released.
A One.
B Three.
C Two.
44. Why should you drain water from compressed air tanks?
A The low boiling point of water reduces braking power.
B Water can freeze in cold weather and cause brake failure.
C To keep from fowling the air compressor oil.
45. If the spring brakes are on, when should you push the brake pedal?
A Only when driving down a hill.
B Only on the slippery road
C Never.
46. With air brake vehicles, the parking brakes should be used:
A Whenever you leave the vehicle unattended.
B As lithe as possible.
C Only during pre- and post-trip inspections.
47 The most important thing to do when a low air pressure warning comes on is
A Upshift.
B Downshift.
C Stop and safely park as soon as possible.
48. During normal driving, spring brakes are usually held back by:
A Bolts.
B Air pressure.

C Spring pressure.
49. If you are driving down a steep downgrade and you have reached your "safe" speed of 40 mph you would apply the service brakes until your speed drops tomph.
A 25
B 30
C 35
50. There are two things that a driver can do to prevent a rollover. They are: (1) Keep the cargo as close to the ground as possible; and(2):
A Go slow around turns.
B Keep both hands firmly on the steering wheel.
C Make sure that the brakes are properly adjusted.
51. Emergency controlled braking is when you:
A Apply the brakes as hard as you can without locking the wheels.
B Brake as hard as you can, release the brakes when wheels locking, brakes back on again when the wheels start rolling.
C Apply the hand valve for one second, then push hard on the brakes.
52. When brakes are applied the brake shoes (or linings) will align to press against the:
A Brake drum or disc.
B Slack adjuster.
C S-cam
53. The stop light switch:
A Tells you when the air brake system is low on air pressure.
B Tells you when you need to use your emergency brakes.
C Turns on your brake lights to warn drivers behind you.
54. If your vehicle has an alcohol evaporator, every day during cold weather you should:
A Check and fill the alcohol level.
B Change the alcohol from a new bottle.

C Check the oil for alcohol content.
55. The brake pedal in an air brake system:
A Controls the speed of the air compressor.
B Controls the air pressure applied to put on the brakes.
C Is connected to slack adjusters by a series of rods and linkages.
56. It is not safe to drive a vehicle that has brake drums with cracks that are longer thanof the width of the friction area.
A One halt
B One fourth.
C One eighth.
57. Before driving a truck or bus with a dual air brake system, the air pressure must be at leastpsi.
A 80
B 100
C 120
58. An air brake system is fully charged at psi.
A 75
B 100
C 125
59. A straight truck or bus air brake system should not leak at the rate of more than psi per minute with the engine off and the brakes released.
A 1
B 2
C 3
60. The air compressor governor controls'
A The speed of the air compressor.
B Air pressure applied tot he brakes.

C When air is pumped into the air tanks.
61. Why drain water from compressed air tanks?
A 0 The low boiling point of water reduces braking power.
B Water can freeze in cold weather and cause brake failure.
C Water cools the compressor too much.
62. Excessive heat caused by using your brakes too often can also cause:
A Modulating control valve to wear out.
B Brake lines to plug.
C Brakes to fade or fail.
63. The air compressor should stop pumping air when pressure reachpsi.
A 100
B 125
C 150
64. The air loss rate for a straight truck or bus with the engine off and the brakes on should not be more than:
A 1 psi in one minute.
B 2 psi in 45 seconds.
B 2 psi in 45 seconds. C 3 psi in one minute.
C 3 psi in one minute.
C 3 psi in one minute. 65. The safety valve discharges automatically at the pressure of:
C 3 psi in one minute. 65. The safety valve discharges automatically at the pressure of: A 50
C 3 psi in one minute. 65. The safety valve discharges automatically at the pressure of: A 50 B 100
C 3 psi in one minute. 65. The safety valve discharges automatically at the pressure of: A 50 B 100 C 150

C The brake pedal feel spongy when you apply pressure.

67. In air brakes vehicles, the parking brakes should be used:
A As lithe as possible.
B Any time when vehicle is parked.
C To hold your speed when going downhill.
68. The braking power of the spring brakes:
A Is not affected by the condition of the service brakes.
B Depends on the service brakes being in adjustment.
C Increases when the service brakes are hot.
69. If air pressure is not built up within the correct amount of time. then:
A You should be ready to use your parking brakes to help stop.
B The alcohol container may be low
C Your air pressure may drop too a low during driving, requiring an emergency stop.
70. The safety valve reduces pressure atpsi?
A 50
B 100
C 150
71. When brakes are applied the brake shoes will press against the:
A Brake drum or disc
B Slack adjuster.
C S-cam
72. The driver must be able to see a low air pressure warning which comes on before pressure in the service air tanks falls belowpsi.
A 40
B 60
C 80

73. The parking or emergency brake on a heavy vehicle can only be held in position by something that cannot leak away, like:
A Spring pressure.
B Air pressure.
C Hydraulic pressure.
74. It is accepted that too much heat caused by using your brakes too often can also cause:
A Modulated control valve to wear out.
B Brake linings to split up.
C Brake to fade or fail.
75. A slack adjuster probably needs to be adjusted if it moves more than inches when you pull hard or it?
A 1/4
B 1/2
C1
76. Modern air brake systems combine three different systems. They are the service, the parking and thebrakes.
A emergency
B foot
C S-cam
77. If you do not have automatic tank drains, how often should you drain the oil and water from the bottom of compressed air storage tanks?
A After every four hours of service.
B At the end of each day of driving.
C Once a week.
78. Your vehicle has a dual air brake system. If a low air pressure warning comes on for only one system, you should:
A Bring the vehicle to a safe stop and continue only after the system is fixed.

B Reduce your speed, and test the remaining system while under way.

C Reduce your speed. and drive to the nearest garage for repairs.