UNIT IV
VEHICLE MAINTENANCE SURVEY

Name: __________________________________________

Date: __________________________________________

Circle the correct answer:

1. T or F Each day before it is put into operation, the law requires that each school bus must be pre-trip inspected to ensure the safety of both the pupils and the driver.

2. T or F The mechanic is the person responsible for safe operation of the school bus under all operating conditions.

3. T or F Drivers must carry the completed copy of a pre-trip inspection form indicating that the vehicle they are driving is free from defects that would interfere with the safe operation of their school bus.

4. T or F From the outside of the bus, check the operating condition of dash-mounted turn-signal indicators, high-beam indicator, eight-light indicator, instrument panel light, and step well light.

5. T or F Most fan belts will operate efficiently if not more than one-half inch give is maintained.

6. T or F Rust dust around the edge of the bolt or nut is a good indicator of a loose lug nut.

7. T or F Mirrors must not be loose and they should be checked daily for cleanliness, cracks, breaks or flaking.

8. T or F After allowing the air pressure to build up fully to charge the air brake system, one brake application should cause no more than 10-psi air drop. An excess of 10 psi indicates that brake adjustment is necessary.

9. T or F Dirty windows and mirrors will not compromise the safe operation of a school bus.

10. T or F Always release the parking brake before starting the vehicle.
Circle all the letters that apply for each of these multiple-choice questions.

11. In air brake systems, the emergency brake will be applied if there is:
   a. Inability to build air pressure.
   b. Complete air pressure loss.
   c. No air pressure loss.
   d. An air pressure loss to 80#psi.
   e. a. & b.

12. Report any unusual transmission noises or shifting difficulty to the:
   a. School Engineer.
   b. State Inspector.
   c. Bus Maintenance Supervisor.

13. Which unusual or substandard steering condition should be reported in writing:
   a. The power steering is quiet; during steering wheel movement from left turn stop to right turn stop.
   b. The bus steers easily and it goes precisely where you steer it.
   c. There appears to be too much play or jerking in the steering system.
   d. The steering is steady in turns and when going over bumps.

14. Engine life will be extended when the driver:
   a. Remains alert to any unusual engine noises.
   b. Never races a cold engine.
   c. Increases speed slowly so that all parts may be properly lubricated.
   d. Starts the engine and drives right away, in cold weather so oil pump can’t cavitate (starved for oil).
   e. a b & c

15. The most accurate way to check brake system air pressure is to:
   a. Check the brake light indicator.
   b. Check the vacuum gauge periodically.
   c. Use the tire pressure gauge.
   d. None of the above.

16. The school bus driver who makes a thorough Pre-Trip, Operating and Post-Trip Inspection of his or her bus will be able to:
   a. Spot trouble.
   b. Recognize defects before damage occurs.
   c. Properly document any items needing repair.
   d. All of the above.
17. Listening for trouble could include:
   a. Hard or wandering steering.
   b. Odor of hot electrical wires.
   c. Continuous or intermittent squeal.
   d. Loud exhaust noise.
   e. c & d.

18. Looking for trouble should include:
   a. Sudden drop in oil pressure.
   b. Smoke coming from under the dash or hood.
   c. Odor of burning rags.
   d. Excessive vibration (engine, steering wheel, and/or drive line).
   e. a. & b.

19. Smelling trouble would include:
   a. Odor of brake lining.
   b. Odor of hot electrical wires.
   c. Light knock when the engine is running at idle speed.
   d. a. & b.
UNIT IV
VEHICLE MAINTENANCE SURVEY
(Answer Key)

Note: This survey is a resource for the trainer to monitor how familiar employees are with the information in Unit IV. This IS NOT a substitute for the required survey on student conduct and students with special needs.

1. **TRUE** Each day before it is put into operation, the law requires that each school bus must be pre-trip inspected to ensure the safety of both the pupils and the driver.

2. **FALSE** The driver is the person responsible for safe operation of the school bus under all operating conditions.

3. **TRUE** Drivers must carry the completed copy of a pre-trip inspection form indicating that the vehicle they are driving is free from defects that would interfere with the safe operation of their school bus.

4. **FALSE** From the inside of the bus, check the operating condition of dash-mounted turn-signal indicators, high-beam indicator, eight-light indicator, instrument panel light, and step well light.

5. **TRUE** Most fan belts will operate efficiently if not more than one-half inch give is maintained.

6. **TRUE** Rust dust around the edge of the bolt or nut is a good indicator of a loose lug nut.

7. **TRUE** Mirrors must not be loose and they should be checked daily for cleanliness, cracks, breaks, or flaking.

8. **TRUE** After allowing the air pressure to build up fully to charge the air brake system, one brake application should cause no more than 10-psi air drop. An excess of 10-psi indicates that brake adjustment is necessary.

9. **FALSE** Dirty windows and mirrors will compromise the safe operation of a school bus.

10. **FALSE** Never release the parking brake before starting the vehicle.

11. In air brake systems, the emergency brake will be applied if there is:
a. Inability to build air pressure.
b. Complete air pressure loss.
c. No air pressure loss.
d. An air pressure loss to 80#psi.
e. a. and b.
   **(Correct answer: e)**

12. Report any unusual transmission noises or shifting difficulty to the:
   a. School Engineer.
b. The State Inspector.
c. The Bus Maintenance Supervisor.
   **(Correct answer: c)**

13. Which unusual or substandard steering condition should be reported in writing:
   a. The power steering is quiet during steering wheel movement from left turn stop to right turn stop.
b. The bus steers easily and it goes precisely where you steer it.
c. There appears to be too much play or jerking in the steering system.
d. The steering is steady in turns and when going over bumps.
   **(Correct answer: c)**

14. Engine life will be extended when the driver:
   a. Remains alert to any unusual engine noises.
b. Never races a cold engine.
c. Increases speed slowly so that all parts may be properly lubricated.
d. Starts the engine and drives right away, in cold weather so oil pump can’t cavitate (starved for oil).
e. a, b, and c
   **(Correct answer: e)**

15. The most accurate way to check brake system air pressure is to:
   a. Check the brake light indicator.
b. Check the vacuum gauge periodically.
c. Use the tire pressure gauge.
d. None of the above.
   **(Correct answer: d)**
16. The school bus driver who makes a thorough pre-trip, operating and post-trip inspection of his or her bus will be able to:
   a. Spot trouble.
   b. Recognize defects before damage occurs.
   c. Properly document any items needing repair.
   d. All of the above.
   (Correct answer: d)

17. Listening for trouble could include:
   a. Hard or wandering steering.
   b. Odor of hot electrical wires.
   c. Continuous or intermittent squeal.
   d. Loud exhaust noise.
   e. c & d.
   (Correct answer: e)

18. Looking for trouble should include:
   a. Sudden drop in oil pressure.
   b. Smoke coming from under the dash or hood.
   c. Odor of burning rags.
   d. Excessive vibration (engine, steering wheel, and/or drive line).
   e. a. & b.
   (Correct answer: e)

19. Smelling trouble would include:
   a. Odor of brake lining.
   b. Odor of hot electrical wires.
   c. Light knock when the engine is running at idle speed.
   d. a. & b.
   (Correct answer: d)