

Name: _____ Date: _____

**DELEGATED BEHIND THE WHEEL TRAINER
SKILLS LEVEL THREE TEST**

Transmission Control and Shifting Procedures

If needed use other side of sheet to finish answering the questions.

1. Explain or describe the following terms:

Downshift _____

Exact Shift Point _____

Gear Range _____

Road Speed _____

Throttle Control _____

2. If the driver of a bus exceeds the manufacturers recommended RPM Governor speed, the automatic transmission will:

- a. Not Shift
- b. Up shift
- c. Down shift
- d. Shift to Neutral

3. List 3 reasons for manually shifting an automatic transmission:

a. _____

b. _____

c. _____

4. Match the following titles with their correct descriptions:

_____ Clutch Brake

_____ Engine Speed

_____ Gear Split

_____ Rolling RPM

_____ Sustained Lugging

_____ Shifting Split

- a. Changing engine rpm gradually by throttle adjustment
- b. The number of rpm's between the top tachometer setting of a gear and the bottom tachometer setting of the next higher gear.
- c. Measured by revolutions per minute on the tachometer.
- d. A friction device in the clutch assembly that stops the gears in the transmission from turning when the clutch pedal is depressed to the floorboard.
- e. The range between the top rpm and the bottom rpm of the next higher gear as recorded on the tachometer.
- f. Overfueling the engine for a long period of time.

5. Explain the downshift inhibit feature: _____

6. Using the following mph and rpm's, fill in the shift chart and graph attached:

1 st	0 - 10	600 – 2000
2 nd	10 – 22	1000 – 2000
3 rd	22 – 34	1400 – 2000
4 th	34 – 45	1500 – 2000
5 th	45 – 55	1800 - 2000

7. List 3 of the 6 objectives for skills level 3 Transmission Control and Shifting Procedures:

8. Using your shift chart and graph from question number 6 fill in the midrange shift points indicated below:

2nd _____ MPH - 1500 RPM

3rd 25 MPH - _____ RPM

4th _____ MPH - 1800 RPM

9. Using your shift chart and graph from question number 6 answer the questions below:

a. What is your shift point for 3rd gear? _____

b. What is the maximum rpm's for this vehicle? _____

c. What is a midrange shift point for 3rd gear? _____ mph _____ rpm

d. What is a midrange shift point for 4th gear? _____ mph _____ rpm