**QUIZ NO. 3 TRANSMISSION/TRANSAXLE**

**MULTIPLE CHOICE**

1. What determines whether a conventional transmission or a transaxle is used?

2. Explain the relationship between output speed and torque.

3. Define final drive gear.

4. Explain the role of shift rails and shift forks in the operation of transmissions and transaxles.

5. Gear can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

a. transfer speed and torque unchanged

b. decrease speed and increase torque

c. increase speed and increase torque

d. all of the above

6. The number of gear teeth per unit of measurement of the gear’s diameter (such as teeth/inch) is known as gear \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

7. Which of the following gear ratios shows an overdrive condition?

a. 2.15:1 c. 0.85:1

b. 1:1 d. none of the above

8. Which type of gear develops the problem of gear whine at higher speeds?

a. spur gear c. both a and b

b. helical gear d. all of the above

9. When an idler gear is placed between the driving and driven gear, the driven gear \_\_\_\_\_\_\_.

a. rotates in the same direction as the driving gear

b. rotates in the opposite direction of the driving gear

c. remains stationary

d. causes the driven gear to rotate faster

10. The components used to ensure that the mainshaft (output shaft) and main (speed) gear to be locked to it are rotating at the same speed is known as a \_\_\_\_\_\_\_\_\_\_\_.

a. synchronizer c. shift fork

b. shift linkage d. transfer case

**SHORT ANSWER**

1. List at least five separate checks that should be made during the visual inspection of transmission/transaxle components.

2. List at least three causes of noise that are not transmission related but may appear to be.

3. What tool is often needed to remove gears and synchronizer assemblies from the transmission/transaxle mainshaft?

4. When removing or installing bearings, where should force be applied?