Quiz 6. Steering System

Direction: Answer the following items by writing the correct answer (if short answer question) and by encircling the answer (if multiple choice question)

1. Describe how rack and pinion steering, parallelogram steering, and worm and roller systems operate.

2. A power-steering hose transmits fluid under pressure from the \_\_\_\_\_\_\_\_\_\_ to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

3. What is an integral o\power-steering system?

4. Define what is a *gearbox ratio?*

5. What are the basic features if all 4WS systems?

6. Worn tie-rod ends can result in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

7. In a rack and pinion steering system, what protects the rack from contamination?

a. the inner tie-rod socket

b. the outer tie-rod socket

c. grommets

d. the bellows boot

8. A variable ration can be normally found in \_\_\_\_\_\_\_\_\_\_\_.

a. manual-steering units

b. power-steering units

c. both a and b

d. neither a nor b

9. Rack and pinion steering \_\_\_\_\_\_\_\_\_\_\_\_\_.

a. is lighter in weight and has fewer components than parallelogram steering

b. does not provide as much feel for the road as parallelogram steering

c. does not use tie rods in the same fashion as parallelogram steering

d. all of the above

10.What connects the steering column to the wheels?

a. the steering shaft

b. the steering linkage

c. the gearbox

d. the pitman arm