Automatic Transmissions / Tranaxles
Chapter 6 Review Questions

Answer the following questions onto a scantron answer sheet.

1. Two technicians are discussing automatic transmission apply devices. Technician A says multiple-disc clutches can be driving devices. Technician B says multiple-disc clutches can be holding devices. Who is right?
   A. Technician A only
   B. Technician B only
   C. Both A and B are correct
   D. Neither A nor B are correct

2. All of the following are automatic transmission apply devices EXCEPT.
   A. multiple-disc clutches
   B. double roller spag clutch
   C. hydraulic servo
   D. split band

3. The amount of friction force developed between a band and the drum depends on:
   A. the length and width of the band
   B. the apply pressure of the servo
   C. the surface area of the drum
   D. the amount of force applied to the end of the band
   E. all of the above answers effect band to drum friction

4. Technician A says all bands use straight servo linkage. Technician B says the thick heavy band design provides the most holding power. Who is right?
   A. Technician A only
   B. Technician B only
   C. Both A and B are correct
   D. Neither A nor B are correct

5. A band design that is self energizing requires more servo apply force.
   A. True
   B. False

6. When a lever style servo linkage is used:
   A. a larger servo piston is required
   B. a smaller servo piston can be used
   C. adjustment is never needed even during overhaul.
   D. none of the above answers are correct

7. Technician A says that independent piston accumulators share a bore with a transmission servo. Technician B says the accumulator softens the application of a hydraulic apply device. Who is right?
   A. Technician A only
   B. Technician B only
   C. Both A and B are correct
   D. Neither A nor B are correct

8. Two technicians are discussing piston accumulators and hydraulic apply devices. Technician A says full pressure on the apply device is not achieved until accumulator piston stops moving. Technician B says full pressure on the apply device is achieved even during accumulator piston movement. Who is right?
   A. Technician A only
   B. Technician B only
   C. Both A and B are correct
   D. Neither A nor B are correct
9. The multiple-disc clutch diaphragm spring is used to:
   A. increase clutch pack holding power during hydraulic apply
   B. push the piston back into the drum during hydraulic apply
   C. soften servo engagement
   D. both answers A and B are correct

10. Residual fluid trapped between a clutch piston and the drum is relieved by:
    A. the coil return springs
    B. the apply orifice
    C. the Belleville spring
    D. the vent port & check ball
    E. Answers A and B are both correct

11. The hydraulic device that allows for a slow clutch apply and a quick clutch release is:
    A. the vent port and check ball
    B. the apply orifice and check ball
    C. the over-center spring
    D. the variable clutch holding force
    E. All the above answers are correct

12. Technician A says some clutch pistons can have applied hydraulic pressure through 2 separate circuits. Technician B says that the type of clutch Technician A is talking about is used to control clutch pack holding power. Who is right?
    A. Technician A only
    B. Technician B only
    C. Both A and B are correct
    D. Neither A nor B are correct

13. A one-way clutch:
    A. is always a holding clutch
    B. is always a driving clutch
    C. can be used to hold or drive
    D. if it is used as a driving clutch it must be a roller design.
    E. None of the above answers are correct

14. In order for a overrunning clutch to be effective the outer race must be:
    A. locked to a driving clutch
    B. locked to a holding clutch
    C. splined to the transmission case
    D. all of these answers are correct

15. Technician A says one advantage of a one-way clutch is that it requires less hydraulic pressure. Technician B says one advantage of a one-way clutch is that it applies and releases almost instantly. Who is right?
    A. Technician A only
    B. Technician B only
    C. Both A and B are correct
    D. Neither A nor B are correct