

Automotive Technology 7<sup>th</sup> Edition  
Chapter 128: Automatic Transmission/Transaxle Principles  
Short Answer Quiz

Name:

Date:

1. Explain how a torque converter can double engine torque and describe the components involved in this process.
2. Detail the three members of a planetary gear set and their respective roles in transmitting torque.
3. Describe how a compound planetary gear set can provide various gear ratios and reverse.
4. List and explain the typical automatic transmission shift modes and their functions.
5. Define a "nonplanetary" automatic transmission and explain how it differs from traditional automatic transmissions.

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6. Discuss the significance of the torque rating in transmission designations and how it affects transmission performance.

7. Explain the operational principle of a Ravigneaux gear set and its application in automatic transmissions.

8. Describe the function of the differential assembly in a transaxle and how it contributes to vehicle movement.

9. Explain the impact of using a torque converter with a different stall speed rating than specified by the manufacturer.

10. Discuss the term "PRNDL" and its relevance to the gear selector in automatic transmissions.