Electric and Hybrid Electric Vehicles, 1st Edition

Quiz 17B

1. Technician A says that a planetary gear set has three main components. Technician B says that a	1.
planetary gear set cannot rotate backwards. Which technician is correct?	1.
A) Technician A only	
B) Technician B only	
C) Both technicians A and B	
D) Neither technician A nor B	
2. The electric motor in the Ford / Lincoln 10R80 MHT transmission provides	2.
A) stop-start capabilities	
B) extra power	
C) extra low-speed torque	
D) All of the answers are correct	
3. A FWD hybrid electric vehicle with an electric rear axle	3.
A) has all-wheel drive capabilities	
B) uses a special inverter	
C) has a separate resolver and temperature sensor for the rear axle unit	
D) All of the answers are correct	
4. Two technicians are discussing the Ford 10R80 MHT transmission. Technician A says that an	4.
electric motor and disconnect clutch are placed between the engine and torque converter.	
Technician B says that the electric motor provides additional power. Which technician is correct?	
A) Technician A only	
B) Technician B only	
C) Both technicians A and B	
D) Neither technician A nor B	
5. The GM parallel hybrid truck features	5.
A) stop-start capabilities	
B) regenerative braking	
C) full electric mode	
D) Both answers a and b are correct	
6. In a GM two-mode hybrid electric vehicle, when can the vehicle be powered by electric mode	6.
alone?	
A) During the first mode	
B) During the second mode	
C) During either the first or second mode	
D) During heavy load conditions regardless of mode	
7. Modifications to automatic transmissions used in hybrid vehicles include	7.
A) electric auxiliary transmission fluid pumps	
B) modified torque converter lockup schedule	
C) hydraulic impulse storage accumulator	
D) All of these answers are correct	

Technician B says that mild a hybrid with stop-start usually has one electric motor. Which	o	
technician is correct?		
A) Technician A only		
B) Technician B only		
C) Both technicians A and B		
D) Neither technician A nor B		
9. The oil pump in the Toyota / Lexus power-split hybrid system	9.	
A) only turns when the ICE is operating		
B) is located in the rear cover of the transmission behind MG2		
C) only turns when MG2 is operating		
D) Both answers a and b are correct		
10. How many electric motor/generators does the GM 2ML70 transmission have?	10.	
A) two		
B) one		
C) three		
D) Any of these, depending on the model year		

Answer Key

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1. A

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2. D

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3. D

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4. A

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5. D

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6. A

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7. D

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8. B

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9. D

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10. A

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