Automotive Brake Systems, 7th Edition Quiz 20B	
Name	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the ques	tion.
1) The high voltage batteries are designed to be charged no more than	1)
A) 100 %	
B) 80 %	
C) 60 %	
D) None of these	
2) Technician A says that a front wheel drive hybrid electric vehicle can only generate electricity	2)
during braking from the front wheel motor(s). Technician B says that antilock braking (ABS) is	,
not possible with a vehicle equipped with a regenerative braking system. Who is correct?	
A) Technician A only	
B) Technician B only	
C) Both technicians	
D) Neither technician	
3) The brake master cylinder used on a hybrid and non-hybrid vehicle are the same.	3)
A) True	
B) False	
4) Two technicians are discussing deceleration rates. Technician A says that a one "g" stop is a	4)
gentle slowing of the vehicle. Technician B says that a stopping rate of 8 ft/sec <sup>2</sup> is a severe stop.	

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gentle slowing of the vehicle. Technician B says that a stopping rate of 8 ft/ $sec^2$ is a severe stop.	
Who is correct?	
A) Technician A only	
B) Technician B only	
C) Both technicians	
D) Neither technician	
5) During braking on a hybrid electric vehicle equipped with a regenerative braking system, what	5)
occurs when the driver depresses the brake pedal?	
A) The friction brakes are only used as a backup and not used during normal braking	
B) The motors become generators	
C) The driver needs to apply a braking lever instead of depressing the brake pedal to	
energize the regenerative braking system	

- D) The batteries are charged to 100 percent SOC 6) \_\_\_\_\_
- 6) Kinetic energy is \_\_\_\_\_.

  A) The energy that the driver exerts on the brake pedal
  - B) The energy needed from the batteries to propel a vehicle
  - C) The energy in any moving object
  - D) The energy that the motor produces to propel the vehicle

7) What position is the throttle pedal in during regenerative braking?	7)
A) Fully lifted	
B) About 10%	
C) The throttle is ignored	
D) None of these	
8) Which type of regenerative braking system uses an electrohydraulic system?	8)
A) Series	
B) Parallel	
C) Both series and parallel	
D) Neither series nor parallel	
9) In a regenerative braking system, which part of the electric motor is being controlled by the computer?	9)
A) The rotor	
B) The stator	
C) Both the rotor and the stator	
D) Neither the rotor nor the stator	
(0) In the Toyota Prius, which controller is responsible for regenerative braking control?	10)
A) The engine ECU	
B) The ABS ECU	
C) The body control module (BCM)	
D) The Hybrid ECU	

## Answer Key

## Testname: BRAKES7\_20B

- 1) B
  - Page Ref: 355, 360
- 2) A
- Page Ref: 355
- 3) B
  - Page Ref: 360
- 4) D
  - Page Ref: 359
- 5) B
  - Page Ref: 354
- 6) C
  - Page Ref: 351
- 7) A
  - Page Ref: 357
- 8) A
  - Page Ref: 353
- 9) B
  - Page Ref: 354
- 10) B
  - Page Ref: 355