Automotive Electricity and Electronics, 6th Edition Quiz 20A	
Name	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the	question.
1) Which starting system component uses a small amount of current to control a large amount current?	of 1)
A) Starter solenoid or relay	
B) Starter brushes	
C) Starter drive D) Neutral safety switch	
D) Neutral Salety Switch	
2) Permanent magnets are commonly used for what part of the starter?	2)
A) The armature	
B) The solenoid	
C) The field coils D) The commutator	
b) The confinitation	
3) On computer-controlled starting, some key-operated ignition systems and most push-button-to-start systems the computer (PCM) is used to crank the engine. The ignition	3)
switch start position or the push-to-start button is used as an input signal to the A) Starter solenoid	
B) Starter relay	
C) PCM	
D) Starter motor	
4) Series-wound electric motors	4)
A) Produce electrical power	
B) Produce maximum power at 0 RPM	
C) Produce maximum power at high RPM	
D) Use a shunt coil	
5) Normal cranking speed of an engine is about	5)
A) 2000 RPM	3)
B) 1500 RPM	
C) 1000 RPM	
D) 200 RPM	
6) How many brushes are typically used in the automotive starter?	6)

A) 4 B) 2 C) 8

D) None of these

8) Technician A says that a defective solehold can cause a starter whine. Technician B says that a	8)
defective starter drive can cause a starter whining noise. Which technician is correct?	
A) Technician A only	
B) Technician B only	
C) Both technicians	
D) Neither technician	
9) The engine will not start if	9)
A) The gear selector is in "D"	
B) The gear selector is in "R"	
C) The gear selector is in "L"	
D) Any of the above	
10) The instant the ignition switch is turned to the start position,	10)
A) The starter motor starts to rotate before energizing the starter pinion gear	,
B) The hold in winding is energized	
C) The pull in winding is energized	

D) Both the pull in winding and the hold in winding are energized

Answer Key

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- 1) A
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- 2) C
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- 3) C
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- 4) B
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- 5) D
- Page Ref: 240
- 6) A
- Page Ref: 243
- 7) D
 - Page Ref: 248
- 8) B
- Page Ref: 247
- 9) D
 - Page Ref: 239
- 10) D
 - Page Ref: 247