

Automotive Engines 10th

Quiz 17A

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1. A compression-sensing ignition system uses a _____ type of ignition
A) distributor
B) coil-on-plug
C) waste spark
D) All of the above
1. _____

2. Technician A says that an engine will likely miss under load if the ignition coil is tracked. Technician B says that one wire of a waste spark coil must be grounded. Which technician is correct?
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B
2. _____

3. Technician A says that a defective spark plug wire can cause an engine miss. Technician B says that a defective spark plug can cause an engine miss. Which technician is correct?
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B
3. _____

4. Technician A says that inductive ignition systems supply battery voltage to the positive side of the ignition coil and pulse the negative side of the coil on and off to ground to create a high-voltage spark. Technician B says if an ignition system uses a distributor, it is called a distributor ignition (DI) system. Which technician is correct?
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B
4. _____

5. Distributor ignition systems can be triggered by a _____.
A) Hall effect sensor
B) magnetic sensor
C) spark sensor
D) Either A or B
5. _____

6. An engine misfire could be caused by all of these, EXCEPT _____.
A) open plug wire
B) worn spark plugs
C) shorted coil boot
D) defective pick-up coil
6. _____

7. A waste-spark-type ignition system fires _____.
A) two spark plugs at the same time
B) one spark plug with reverse polarity
C) one spark plug with forward polarity
D) All of the above
7. _____

8. Technician A says that a defective crankshaft position sensor can cause a no-spark condition. Technician B says that a faulty ignition control module can cause a no-spark condition. Which technician is correct? 8. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
9. Technician A says to use a normal spark plug when checking for spark. Technician B says that a spark tester should be used to check for spark. Which technician is correct? 9. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
10. Technician A says that a thorough visual inspection should be performed on all ignition components when diagnosing an engine performance problem. Technician B says platinum spark plugs can be regapped after use in an engine. Which technician is correct? 10. _____
- A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

Answer Key

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1. C
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2. A
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3. C
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4. C
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5. D
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6. D
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7. D
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8. C
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9. B
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10. A
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