Automotive Engines 10th

Quiz 10B

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

 The most common diesel exhaust emission test used in local testing programs is A) the opacity test 	1
B) the exhaust temperature test	
C) the paper test	
D) a "Check Engine" light test	
2. What color exhaust smoke occurs most often during cold engine starts because the smoke is	2
usually condensed fuel droplets?	
A) Grey B) Blue	
C) White	
D) Black	
3. A diesel engine should produce at least psi of compression pressure and all cylinders	3
should be within 50 psi of each other.	
A) 150	
B) 250	
C) 300 D) 450	
D) 450	
4. The fuel pressure in a common rail diesel injection system can be as high as	4.
A) 600 psi	
B) 60 psi	
C) 20,000 psi	
D) 56 psi	
5. The process of purging soot from a diesel particulate filter is called	5
A) regeneration	
B) regulation	
C) sooting D) booting	
D) heating	
6. What percent of opacity means the exhaust has no visible smoke and does not block light from a	6.
beam projected through the exhaust smoke?	
A) 0%	
B) 25%	
C) 50%	
D) 100%	
7. The three phases of diesel ignition include	7.
A) glow plug ignition, fast burn, slow burn	
B) slow burn, fast burn, slow burn	
C) ignition delay, rapid combustion, controlled combustion	
D) glow plug ignition, ignition delay, controlled combustion	

 8. Which of these takes place during regeneration in a diesel particulate filter (DPF)? A) The oxygen sensor is being cleaned B) Soot is being burned C) EGR system is being actively tested D) Catalytic converter is being purged 	8
 9. What diesel emission test measures the percentage of light that is blocked by the exhaust smoke? A) Opacity test B) Pop test C) Snap acceleration test D) Rolling acceleration test 	9
 10. How is diesel fuel ignited in a warm diesel engine? A) Glow plugs B) Heat of compression C) Spark plugs D) Distributorless ignition system 	10

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. C

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- 5. A
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- 6. A
 - Page Ref: 115
- 7. C
 - Page Ref: 101
- 8. B
 - Page Ref: 110
- 9. A
- Page Ref: 115
- 10. B

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