

## Automotive Engines 10th

### Quiz 24A

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

1. Which media is best to use for cleaning parts, as it does not need to be thoroughly cleaned after using? 1. \_\_\_\_\_
  - A) Baking soda
  - B) Stainless steel shot
  - C) Glass beads
  - D) Aluminum shot
  
2. Technician A says that the fluorescent penetrant test method can be used to detect cracks in iron, steel, or aluminum parts. Technician B says that the dye penetrant test can only be used with aluminum parts. Which technician is correct? 2. \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
3. Technician A says that an attendant must be present any time a pyrolytic oven is used. Technician B says that aluminum parts should be cleaned at a temperature greater than 600°F. Which technician is correct? 3. \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
4. Cleaning chemicals are usually either a caustic material or an acid material. Which of the following statements is TRUE? 4. \_\_\_\_\_
  - A) Both caustics and acids have a pH of 7 if rated according to distilled water
  - B) An acid is lower than 7 and a caustic is higher than 7 on pH scale
  - C) An acid is higher than 7 and a caustic is lower than 7 on pH scale
  - D) Pure water is a 1 and a strong acid is a 14 on the pH scale
  
5. A pyrolytic oven is used to clean parts; however, caution should be used to limit the temperature in order to prevent damaging engine parts. What are the maximum recommended temperatures? 5. \_\_\_\_\_
  - A) 300°F (150°C) for all engine parts
  - B) 600°F (315°C) for aluminum parts
  - C) 800°F (425°C) for cast iron
  - D) Both B and C
  
6. Technician A says that engine parts need to be cleaned before a thorough test can be done to detect cracks. Technician B says that pressure testing can be used to find cracks in blocks or cylinder heads. Which technician is correct? 6. \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B

7. Technician A says that mechanical cleaning with scrapers or wire brushes can be used to remove deposits. Technician B says that steel wire brushes can be used to clean aluminum parts. Which technician is correct? 7. \_\_\_\_\_
- A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
8. Magnetic crack inspection uses \_\_\_\_\_. 8. \_\_\_\_\_
- A) red dye to detect cracks in aluminum
  - B) a black light to detect cracks in iron parts
  - C) fine iron powder to detect cracks in iron parts
  - D) a magnet to remove cracks from iron parts
9. Technician A says that any cleaning chemical can be used to clean aluminum parts or components. Technician B says that most chemical cleaners are strong soaps called caustic materials. 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. Most chemical cleaners used for cleaning carbon-type deposits are strong soaps called \_\_\_\_\_. 10. \_\_\_\_\_
- A) caustic materials
  - B) acid materials
  - C) cleaning materials
  - D) pH materials

## Answer Key

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2. A  
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3. D  
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6. C  
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