

## *Automotive Engines 10th*

### **Quiz 14A**

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

1. Which of the following is true of the properties of engine oil? 1. \_\_\_\_\_
  - A) Engine oil gets thinner when it is cooled.
  - B) Engine oils should not be miscible.
  - C) Engine oil viscosity changes with temperature.
  - D) Engine oil pour point is the highest temperature at which oil will pour.
  
2. Two technicians are discussing oil filters. Technician A says that the oil will remain perfectly clean if just the oil filter is changed regularly. Technician B says that oil filters can filter particles smaller than the human eye can see. 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. Oil viscosity refers to which of these? 3. \_\_\_\_\_
  - A) Most important property of lubricating oil
  - B) Tendency of oil to resist flowing
  - C) Divided into body and fluidity
  - D) Tendency of oil to increase flow
  
4. Which of the following is NOT a characteristic of satisfactory engine oil? 4. \_\_\_\_\_
  - A) Resist foaming
  - B) Provide dry friction between moving parts
  - C) Proper viscosity
  - D) Pours at low temperatures
  
5. Using the wrong oil when changing oil could cause the "Check engine" light to come on. 5. \_\_\_\_\_
  - A) True
  - B) False
  
6. Oil with a high viscosity has a \_\_\_\_\_ resistance to flow than oil with a lower viscosity. 6. \_\_\_\_\_
  - A) higher
  - B) lower
  - C) equal
  - D) None of these
  
7. Which of these oils contains no detergents or additives and is NOT suitable for use in engines? 7. \_\_\_\_\_
  - A) SA
  - B) SG
  - C) SM
  - D) None of these
  
8. Which rating is the ACEA rating specified for use by many European vehicle manufacturers? 8. \_\_\_\_\_
  - A) SAE
  - B) A3/B3
  - C) SM
  - D) GF-4

9. The "W" in SAE 5W-20 means \_\_\_\_\_.

9. \_\_\_\_\_

- A) Weight
- B) Winter
- C) With
- D) Without

10. Technician A says that some vehicle manufacturers recommend an ILSAC grade be used in the engine. Technician B says that an oil with the specified API rating and SAE viscosity rating should be used 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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5. A  
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