

Name: _____ Class: _____ Date: _____

Chapter 02: Current Status of the Plastics Industry

1. A steep drop in plastics production in 2008-2009 can be attributed to the ____.
- a. World Trade Center bombing
 - b. financial crisis that started in 2008
 - c. wars in Afghanistan and Iraq
 - d. demand for crude oil

ANSWER: b

2. The projections for plastics production by 2020 have been based on the growth of plastics in ____.
- a. aeronautics
 - b. space travel
 - c. medical technology
 - d. the automotive industry

ANSWER: d

3. One of the five states that enacted bottle deposit laws in the 1970s is ____.
- a. Oregon
 - b. Pennsylvania
 - c. New York
 - d. Texas

ANSWER: a

4. Recycling is a term generally reserved for ____.
- a. reuse of waste materials generated during manufacturing
 - b. reprocessing of waste materials generated during manufacturing
 - c. postconsumer waste materials
 - d. incineration of waste materials

ANSWER: c

5. Why has there been so little success in bottle deposit laws?
- a. consumers have been slow to recycle
 - b. major soft drink manufacturers oppose it
 - c. the federal government opposes it
 - d. there is great diversity in state laws concerning recycling

ANSWER: b

6. Historically, a problem with PET bottle recycling was related to the fact that ____.
- a. the FDA did not allow recycled materials to be in contact with food
 - b. PET bottles has toxic materials
 - c. the FDA imposed steep inspection costs on recycled PET
 - d. PET bottles were an alloy of unknown substances

ANSWER: a

7. Because residents often make mistakes in sorting plastic containers, many large communities accept ____.
- a. PVC only

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- b. only HDPE plastics
- c. only nonplastics
- d. commingled materials

ANSWER: d

8. In recycling collection trucks, the greatest volume collected is ____

- a. plastics
- b. mixed paper
- c. cardboard
- d. aluminum cans

ANSWER: a

9. In a materials recovery facility (MRF), the conveyor belts that move recycled materials past employees who sort them are called ____.

- a. sorting lines
- b. magnetic sorting features
- c. picking lines
- d. baling lines

ANSWER: c

10. Natural HDPE bottles are mostly ____.

- a. clear bottles
- b. opaque bottles suitable for bleach
- c. juice containers
- d. milk jugs

ANSWER: d

11. What is the process in which a blower system separates the fine pieces out that are too light to fall through a controlled updraft?

- a. baling
- b. elutriation
- c. decanting
- d. flotation

ANSWER: b

12. Automatic sorting systems detect the chemical makeup of material, such as the ____ systems that detect opacity.

- a. single wavelength infrared (IR)
- b. multiple wavelength IR
- c. optical
- d. X-ray

ANSWER: a

13. The type of depolymerization that produces useful monomers is called ____.

- a. pyrolysis

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- b. decomposition
- c. hydrolysis
- d. liquefaction

ANSWER: c

14. What is an advantage of incineration?

- a. it is environmentally friendly
- b. it is very economical
- c. it provides an 10% to 20% reduction in the volume of the solid waste
- d. it does not require sorting of the solid wastes

ANSWER: d

15. Polymer materials that derive from renewable resources, such as corn rather than petroleum-based plastics are known as ____.

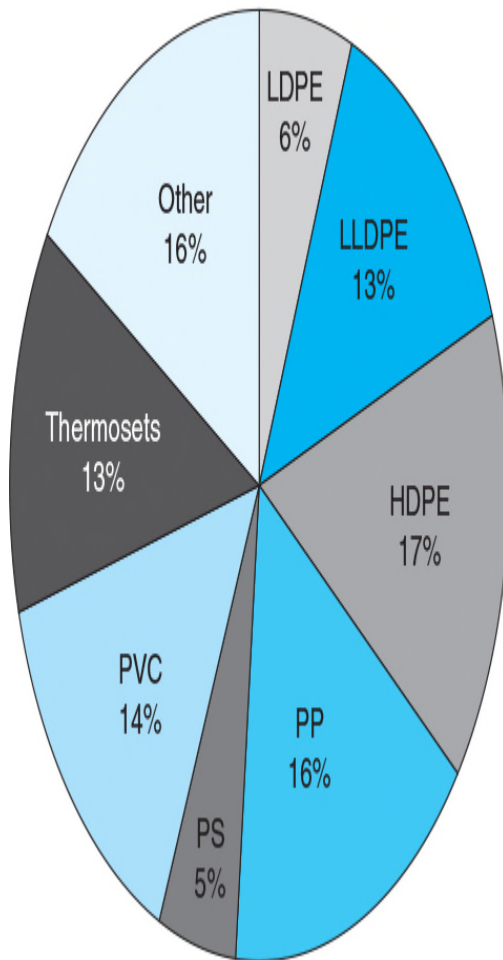
- a. degradable plastics
- b. bioplastics
- c. biodegradable plastics
- d. hydrolyzed plastics

ANSWER: b

16. This pie chart shows that ____ represents the highest percentage of production.

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Distribution of US Production



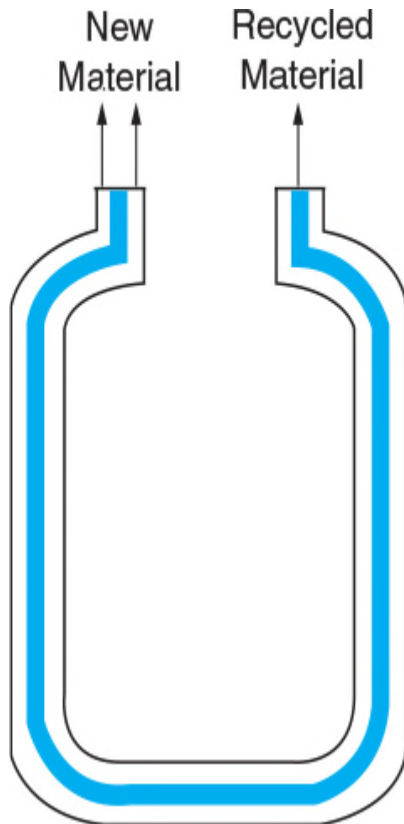
- a. low-density polyethylene
- b. polyvinyl chloride
- c. high-density polyethylene
- d. polystyrene

ANSWER: c

17. This figure shows an early idea to remedy the problem of the FDA not allowing the use of _____ in food contact applications.

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- a. PVS
- b. HDPE
- c. plastics
- d. recycled materials

ANSWER: d