Name:	Class:	Date:
Chapter 02: Current Status of the Plas	stics Industry	
1. A steep drop in plastics production in 2 a. World Trade Center bombing	2008-2009 can be attributed to the	
b. financial crisis that started in 2008	8	
c. wars in Afghanistan and Iraq		
d. demand for crude oil		
ANSWER: b		
2. The projections for plastics production	n by 2020 have been based on the growth of	f plastics in
a. aeronautics		
b. space travel		
c. medical technology		
d. the automotive industry		
ANSWER: d		
3. One of the five states that enacted bott	tle deposit laws in the 1970s is	
a. Oregon		
b. Pennsylvania		
c. New York		
d. Texas		
ANSWER: a		
4. Recycling is a term generally reserved	l for	
a. reuse of waste materials generated	d during manufacturing	
b. reprocessing of waste materials ge	enerated during manufacturing	
c. postconsumer waste materials		
d. incineration of waste materials		
ANSWER: c		
5. Why has there been so little success in	n bottle deposit laws?	
a. consumers have been slow to recy	ycle	
b. major soft drink manufacturers op	opose it	
c. the federal government opposes it	t	
d. there is great diversity in state law	vs concerning recycling	
ANSWER: b		
· -	le recycling was related to the fact that	_·
a. the FDA did not allow recycled m	naterials to be in contact with food	
b. PET bottles has toxic materials		
c. the FDA imposed steep inspection	-	
d. PET bottles were an alloy of unkn	nown substances	
ANSWER: a		
7. Because residents often make mistakes a. PVC only	es in sorting plastic containers, many large c	communities accept

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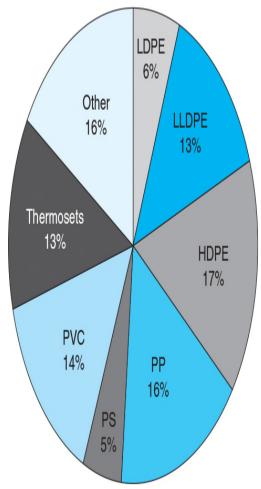
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Name:	Class:	Date:
Chapter 02: Current Status of the Plastic	cs Industry	
b. only HDPE plastics		
c. only nonplastics		
d. commingled materials		
ANSWER: d		
8. In recycling collection trucks, the greates a. plastics	st volume collected is	
b. mixed paper		
c. cardboard		
d. aluminum cans		
ANSWER: a		
9. In a materials recovery facility (MRF), the are called	ne conveyor belts that move recycled n	naterials past employees who sort them
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 supdraft?	system separates the fine pieces out that	t are too light to fall through a controlled
a. baling		
b. elutriation		
c. decanting		
d. flotation		
ANSWER: b		
<ul><li>12. Automatic sorting systems detect the ch</li><li>a. single wavelength infrared (IR)</li><li>b. multiple wavelength IR</li></ul>	nemical makeup of material, such as the	e systems that detect opacity.
c. optical		
d. X-ray		
ANSWER: a		
13. The type of depolymerization that prod a. pyrolysis	uces useful monomers is called	

Name:	Class:	_ Date:
Chapter 02: Current Status of the Plastics I		
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 w	vastes	
ANSWER: d		
15. Polymer materials that derive from renewa as	able resources, such as corn rather th	nan petroleum-based plastics are known
a. degradable plastics		
b. bioplastics		
c. biodegradable plastics		
d. hydrolyzed plastics		
ANSWER: b		
16. This pie chart shows that represents t	he highest percentage of production	1.

## **Chapter 02: Current Status of the Plastics Industry**

## Distribution of US Production



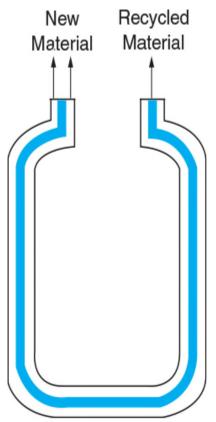
- a. low-density polyethylene
- b. polyvinyl chloride
- c. high-density polyethylene
- d. polystyrene

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.

Name:	Class:		Date:	
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## **Chapter 02: Current Status of the Plastics Industry**



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

ANSWER: d