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CHAPTER ONE TEST

HISTORY OF CHEMICAL PROCESSING

- 1. The lifeblood of modern society is:
 - a. computer technology
 - b. transportation technology
 - c. communication systems
 - d. crude oil technology
- 2. Who took an old steam engine and adapted it to fit a drill in 1859?
 - a. Col. Edwin L. Drake
 - b. Prof. Benj. Sillman
 - c. J.C. Booth
 - d. Abraham Gesner
- 3. When was the first oil refinery built by W. Abbott and W. Barnsdall?
 - a. 1800
 - b. 1860
 - c. 1901
 - d. 1917
- 4. What is the typical starting income for a process technician is:
 - a. \$18.00-\$22.00 per hour
 - b. \$24.00- \$28.00 per hour
 - c. \$36.00-\$40.00 per hour
 - d. \$28.00- \$34.00 per hour
- 5. What two inventions changed the direction of modern chemical processing?
 - a. kerosene lantern and steam engine
 - b. radio and television
 - c. automobile and electric light bulb
 - d. atom bomb and colt revolver

	a.	Freedom and responsibility for learning	
	b.	High percentage of students are married and have jobs	
	c.	Cost per credit hour and freedom to select curriculum	
	d.	All the above	
7.	What i	What is sexual harassment?	
	a.	hidden biases between people with differences.	
	b.	reasonable, specific, measurable objectives that lead towards the successful	
		completion of a goal.	
	c.	behavior that constitutes unwelcome sexual advances.	
	d.	the study and application of the scientific principles associated with the operation	
		and maintenance of the chemical processing industry.	
8.	Distillation is a process that:		
	a.	adds all ingredients to the process up front.	
	b.	separates the components in a mixture by boiling point.	
	c.	uses heat and pressure to separate small hydrocarbons from large ones.	
	d.	uses a catalyst to separate hydrocarbons.	
9.	Early 1	manufacturers were able to extract barrels of gasoline from every 100	
	barrels of crude oil.		
10.	Crude	oil is a mixture of:	
	a.	naturally occurring acids and clay	
	b.	hydrocarbons	
	c.	sour water	
	d.	fine silt, water and natural gas	
11.	Thermal cracking uses to separate mixtures.		
	a.	catalyst and heat	
	b.	acid and heat	
	c.	mixing and agitation	
	d.	heat and pressure	

What are the primary differences between College and High School?

6.

12.	Fractional columns use the following principle:		
	a.	distillation	
	b.	reaction	
	c.	filtration	
	d.	reforming	
13.	Catalytic cracking uses to separate mixtures.		
	a.	catalyst and heat	
	b.	acid and heat	
	c.	mixing and agitation	
	d.	heat and pressure	
14.	Chemical plants and refineries employ all of the following except:		
	a.	engineers, chemists, and janitorial services	
	b.	machinists, mechanics, and college professors	
	c.	process technicians or research technicians	
	d.	electricians, instrument technicians, and security officers	
15.	Mode	rn manufacturers can extract barrels of gasoline from every 100 barrels of	
	crude oil.		
16.	Safety awareness is:		
	a.	taught from the moment you step into the plant	
	b.	rarely discussed after the training program	
	c.	reviewed annually	
	d.	a medium size industrial program	
17.	Quality awareness includes all of the following except:		
	a.	statistical process control	
	b.	run charts	
	c.	emergency response	
	d.	scatter plots	

- 18. The "Big Rollover" is best described as:
 - a. stock market crashes
 - b. when total "estimated ultimately recoverable (EUR) is determined.
 - c. a term used to describe the predicted increase in global oil production.
 - d. when global oil production peaks, and begins to decline.
- 19. The term, "estimated ultimately recoverable (EUR)" is best described as:
 - a. a term used to describe the predicted increase in global oil production.
 - b. a technical term describing the total amount of crude oil that will ultimately be recovered.
 - c. recovery speed after exposure to hazardous chemical.
 - d. when global oil production peaks, and begins to decline.
- 20. William Murdock is best known for:
 - a. using gases from heated coal to light his home.
 - b. first to notice that coal produced fumes he called "gas."
 - c. drilled first natural gas well in United States in 1821.
 - d. discovered how to produce kerosene from crude oil or coal.
- 21. Most experts agree that the world's total endowment of oil is:
 - a. 27 billion barrels
 - b. 1800 billion barrels
 - c. 900-1500 billion barrels
 - d. endless regenerated supply
- 22. Abraham Gesner is best known for:
 - a. using gases from heated coal to light his home.
 - b. first to notice that coal produced fumes he called "gas."
 - c. drilled first natural gas well in United States in 1821.
 - d. discovered how to produce kerosene from crude oil or coal.
- 23. Jan Baptista van Helmont is best known for:
 - a. using gases from heated coal to light his home.
 - b. first to notice that coal produced fumes he called "gas."
 - c. drilled first natural gas well in United States in 1821.
 - d. discovered how to produce kerosene from crude oil or coal.
- 24. William Aaron Hart is best known for:

- a. using gases from heated coal to light his home.
- b. first to notice that coal produced fumes he called "gas."
- c. drilled first natural gas well in United States in 1821.
- d. discovered how to produce kerosene from crude oil or coal.

25. Benjamin Sillman Jr. is best known for:

- a. finding a way to distill coal oil from shale or coal.
- b. discovered how to produce kerosene from crude oil.
- c. drilling the first oil well in United States.
- d. proposing the theory of crude oil distillation.