

Answer Key
Testname: TEST 1

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- 1) A
- 2) D
- 3) C
- 4) B
- 5) D
- 6) E
- 7) D
- 8) C
- 9) C
- 10) C
- 11) C
- 12) E
- 13) D
- 14) E
- 15) E
- 16) B
- 17) E
- 18) E
- 19) E

- 1) D
- 2) D
- 3) B
- 4) B
- 5) D
- 6) D
- 7) E
- 8) A
- 9) B
- 10) E
- 11) C
- 12) B
- 13) B
- 14) B
- 15) C
- 16) D
- 17) C
- 18) E
- 19) D

$$9.0 \text{ ft} \times 14.5 \text{ ft} \times 18.8 \text{ ft} \text{ to L}$$
$$2453 \text{ ft}^3 \times \left(\frac{12 \text{ in}}{1 \text{ ft}}\right)^3 \times \left(\frac{2.54 \text{ cm}}{1 \text{ in}}\right)^3 \times \frac{1 \text{ m}^3}{1000 \text{ L}}$$
$$= 44. \boxed{69 \times 10^4 \text{ L}}$$

$$315 \text{ K to } ^\circ\text{F} \quad 315 \text{ K} - 273.15 = 41.85$$
$$^\circ\text{F} = \frac{9}{5} \text{C} + 32 = \boxed{107^\circ\text{F}}$$

$$22.50 \text{ gal/to} \frac{\text{L}}{\text{min}} \quad (1 \text{ Gal} = 3.785 \text{ L})$$
$$22.50 \frac{\text{gal}}{\text{min}} \times 3.785 \frac{\text{L}}{\text{gal}} \times \frac{1 \text{ min}}{60 \text{ s}} = 1.419 \frac{\text{L}}{\text{s}}$$

$$280 \text{ g NaCl} \quad \text{NaCl} = 58.44 \text{ amu}$$
$$280 \text{ g} \times \frac{1 \text{ mole}}{58.44 \text{ g}} = 4.9610 \text{ moles}$$
$$= 5.0 \text{ moles.}$$

21) Calculate the % by mass of Oxygen in $\text{CH}_3\text{COOCH}_3$.

$$\text{CH}_3\text{COOCH}_3 = 74.066 \text{ amu}$$

$$\% \text{ element} = \frac{2 \times 16.00}{74.066} \times 100 = 43.20 \%$$

22.

$\text{Cr}(\text{OH})_3$ - Chromium hydroxide

XeO_3 Xenon tri oxide

AlCl_3 Aluminum chloride

IF_5 Iodine pentafluoride

$\text{Ba}(\text{ClO}_4)_2$ Barium perchlorate

Tetraphosphorous hexa ~~fluor~~ sulfide P_4S_6

Sodium hypobromite NaBrO

Sulfurous acid H_2SO_3

~~hydrogen sulfide~~

hydrosulfuric acid H_2S

hypochlorous acid HClO

GO BY NAME
NOT
SEQUENCE