

Deep Run High School

COLLEGE PREP CHEMISTRY

Unit 1 Quiz

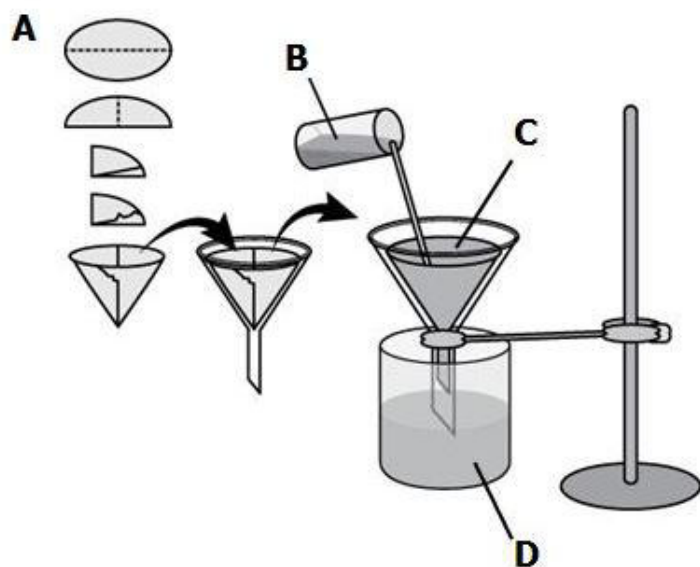
Instructor: Jennifer Krug

Name: _____

Question 1

/1

During the process of filtration, the substance labeled D in the diagram is



- ☐ Residue
- ☐ Filtrate
- ☐ Precipitate
- ☐ Compound

Name: _____

Question 2

/1

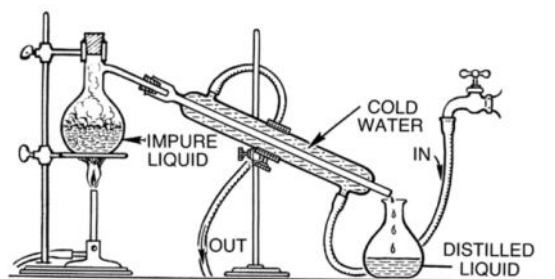
Which separation technique involves converting a liquid into gas in order to recover a solid?

- ☐ chromatography
- ☐ evaporation
- ☐ decanting
- ☐ filtration

Question 3

/1

The apparatus below is used for



- ☐ distillation
- ☐ crystallization
- ☐ saturation
- ☐ filtration

Name: _____

Question 4

/1

Record the sum of all the measurements to the proper number of significant digits.

$$33.87 \text{ cm} + 21.5 \text{ cm} + 6 \text{ cm} = \underline{\hspace{2cm}} \text{ cm}$$

☐ 61.4 cm

☐ 61.37 cm

☐ 62 cm

☐ 61 cm

Question 5

/1

Record the following product to the proper number of significant figures.

$$0.2 \text{ cm} \times 5.73 \text{ cm} \times 0.004 \text{ cm} = \underline{\hspace{2cm}}$$

☐ 0.005000 cm³

☐ 0.004584 cm³

☐ 0.005 cm³

☐ 0.004600 cm³

Name: _____

Question 6

/1

How many significant digits are in the measurement 40400 g?

☐ 4

☐ 5

☐ 2

☐ 3

Question 7

/1

Multiple Response Question:

Which of the following values contains three significant figures?

** Hint: Multiple Response Questions usually have more than one correct answer.*

☐ 240

☐ 1050

☐ 0.0350

☐ 23.0

Name: _____

Question 8

/1

The number 2549.852 rounded to three significant digits is

☐ 2540

☐ 254

☐ 255

☐ 2550

Question 9

/1

The number 0.0005030040 rounded to two sig figs is

☐ 503

☐ 50

☐ 0.000503

☐ 0.00050

Name: _____

Question 10

/1

Which piece of equipment is best suited to remove a hot crucible from its clay triangle?

☐☐☐☐

Name: _____

Question 11

/1

What is the name and purpose of the piece of glassware pictured here?



- ☐ A graduated cylinder used to measure mass.
- ☐ A buret used to measure mass.
- ☐ A buret used to measure volume.
- ☐ A graduated cylinder used to measure volume.

Name: _____

Question 12

/1

Express the following number using scientific notation: **38,000**

☐ 3.8000×10^4

☐ 38.000×10^3

☐ 3.8×10^4

☐ 38×10^3

Question 13

/1

Convert 20356.40 into scientific notation.

☐ 2.035640×10^4

☐ 2.0356×10^4

☐ 2.035640×10^6

☐ 2.03564×10^4

Name: _____

Question 14

/1

The process of thin layer chromatography separates non-volatile mixtures based on their

- ☐ boiling point.
- ☐ particle size.
- ☐ volume.
- ☐ density.

Question 15

/1

Decanting uses which method to separate components of an **immiscible mixture**?

- ☐ boiling
- ☐ pouring
- ☐ grinding
- ☐ crystallizing