Deep Run High School

CHEMISTRY I: 3(A), 4(A), 5(A), 7(A)

Unit 1 Quiz

Instructor: Jennifer Krug

Name:	Score:	/ 100
Question 1		/1
Increasing the temperature will		
decrease the rate of evaporation.		
increase the rate of evaporation.		
have no effect on the rate of evaporation.		
slowly stop evaporation.		
Question 2		/1
What physical property enables decanting to separate a mixture of immiscible liquids?		
boiling point		
particle size		
density		
mass		

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Name:	
Question 3	/1
The number 0.03746 rounded to three significant digits is	
0.0380	
0.0374	
0.037	
0.0375	
	44
Question 4 The number 0.0005020040 rounded to two significant figures is	/1
The number 0.0005030040 rounded to two significant figures is	
0.000503	
0.00050	

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Name:	
Question 5	/1
Which laboratory techniques can be used to separate a mixture of sand and salt water into the individual components?	
filtration and evaporation	
magnetism and filtration	
chromatography and a centrifuge	
a separatory funnel and decanting	
Question 6	/1
How many significant digits are in the measurement 0.03070 g?	
6	
3	
4	

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	/1	
Question 7		
How many significant digits are in the measurement 404 5 4 2 3	100 g?	
Question 8	/1	
Record the difference in volume to the proper number o significant figures.	of	
53.25 ml - 13.75 ml = 40.0 ml 39.5 ml 40.00 ml 39.50 ml		

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Name:	
Question 9	/1
Record the product of these measurements to the proper of significant figures.	number
8.5 m x 5.10 m x 7.890 m =	
342.0315 m ³	
342.032 m ³	
340 m^3	
342 m ³	
Question 10	/1
Express this number in standard notation: 2.3050 \times 10 3	
0.0023050	
2.3050	
2305	
2305.0	

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Name	:		
Question	11		/1
Ехрі	ress the following in standard notation: 3.0030 \times 10 ⁻³		
	0.0030030		
	0.3003000		
	3.0030		
	3003.0		
Question	12		/1
	s piece of lab equipment is used for heating, mixing chemicals, erving reactions and for measuring approximate volumes of liqu	uids.	
	Graduated Cylinder		
	Beaker		
	Burret		
	Wash Bottle		

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Name:			

Question 13

/1

Which piece of equipment may be used to direct liquids into a container without spilling or may be used with filter paper to separate liquids from solids?













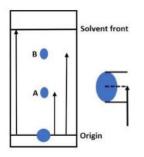
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Question 14

/1

When using the thin layer chromatography technique, which substance will have the largest Retention Factor (Rf)?



$$R_f = rac{Distance\ traveled\ by\ component}{Distance\ traveled\ by\ solvent}$$

- The component with the highest solubility.
- The component with the highest density.
- The component with the lowest boiling point.
- The component with the largest particle size.

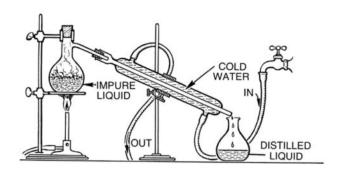
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Name:			

Question 15

1

Which liquid is condensed in the process of distillation?



The liquid with more ma	ass.
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The liquid with a higher density.

The liquid with a lower boiling point.

The liquid with a higher boiling point.

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