

A Level Chemistry B (Salters)
H433/01 Fundamentals of chemistry

What's in a Medicine?

Question Set 5

Multiple Choice Questions

1 Which row gives correct statements for both distillation and heating under reflux?

	Distillation	Heating under reflux
A	collects volatile product	collects involatile product
B	removes volatile product before further reaction	enables reaction to be heated for longer
C	enables reaction to be heated for longer	avoids fires from flammable products
D	collects involatile product	removes volatile product before further reaction

Your answer

[1]

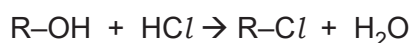
2 What is correct about a mass spectrum of a compound?

- A It shows the atoms produced from the compound.
- B It enables the M_r of the compound to be determined.
- C It has a small M+1 peak because of some ^2H atoms present in the compound.
- D The units of the x-axis are 'mass'.

Your answer

[1]

3 The reaction below produces a chloroalkane.



Which row shows the steps to purify the liquid product in the correct order?

A	Use a separating funnel	Distil	Dry	Remove unreacted HCl
B	Remove unreacted HCl	Use a separating funnel	Dry	Distil
C	Remove unreacted HCl	Use a separating funnel	Distil	Dry
D	Use a separating funnel	Remove unreacted HCl	Distil	Dry

Your answer

[1]

4 Which molecule will **not** be made when water is eliminated from $\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)(\text{OH})\text{CH}_2\text{CH}_2\text{CH}_3$?

- A $\text{CH}_3\text{C}(\text{CH}_3)=\text{CHCH}_2\text{CH}_2\text{CH}_3$
- B $\text{CH}_3\text{CH}=\text{C}(\text{CH}_3)\text{CH}_2\text{CH}_2\text{CH}_3$
- C $\text{CH}_2=\text{C}(\text{CH}_2\text{CH}_3)\text{CH}_2\text{CH}_2\text{CH}_3$
- D $\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)=\text{CHCH}_2\text{CH}_3$

Your answer

[1]

5 What is a principle of green chemistry?

- A Heating a reaction to speed it up
- B Improving the atom economy of a process
- C Disposing of waste efficiently
- D Using organic solvents

Your answer

[1]

6 Which reaction does **not** occur?

- A $\text{C}_6\text{H}_5\text{COOH} + \text{NaOH} \rightarrow \text{C}_6\text{H}_5\text{COONa} + \text{H}_2\text{O}$
- B $\text{C}_6\text{H}_5\text{OH} + \text{NaOH} \rightarrow \text{C}_6\text{H}_5\text{ONa} + \text{H}_2\text{O}$
- C $2\text{C}_6\text{H}_5\text{COOH} + \text{CaCO}_3 \rightarrow (\text{C}_6\text{H}_5\text{COO})_2\text{Ca} + \text{CO}_2 + \text{H}_2\text{O}$
- D $2\text{C}_6\text{H}_5\text{OH} + \text{Na}_2\text{CO}_3 \rightarrow 2\text{C}_6\text{H}_5\text{ONa} + \text{CO}_2 + \text{H}_2\text{O}$

Your answer

[1]

Total Marks for Question Set 5: 6

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