

ESM341

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1. ----- transforms the molecules in a sample into ionized fragments

--->> ion source

mass analyser

Detector

AAS

2. ----- is the collective term for a family of laboratory techniques for the separation of mixtures

surficial geology

colorimeters

Mass spectrometry

--->> Chromatography

3. ----- is the act, process, or technique of selecting a suitable sample, or a representative part of a population for the purpose of determining parameters or characteristics of the whole population

selection

population

--->> sampling

sample

4. ----- is a finite part of a statistical population whose properties are studied to gain information about the whole

selection

population

sampling

--->> sample

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in absorbing liquids and form near perfect solutions such as methanol in water and esters in alcohols

acidic

--->> reactive

Non- reactive

flamable

6. ----- examples of gas wash bottles that can be used to collect gaseous substances that are only moderately soluble or slow reacting with reagents in the absorbing medium.

Fritted bubblers

Simple gas wash bottles

--->> Spiral type absorbers

midget impinger

7. The design of a mass spectrometer has ----- essential modules

1

2

--->> 3

4

8. ----- sorts the ions by applying electric and magnetic

ion source

--->> mass analyser

Detector

AAS

9. ----- are the most commonly used absorbing devices in the field today for sampling gaseous air contaminants in ambient work atmospheres

--->> Fritted bubblers

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Spiral type absorbers

midget impinger

10. ----- measures the value of some indicator quantity and thus provides data for calculating the abundances of each ion fragment present

ion source

mass analyser

---> Detector

AAS

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