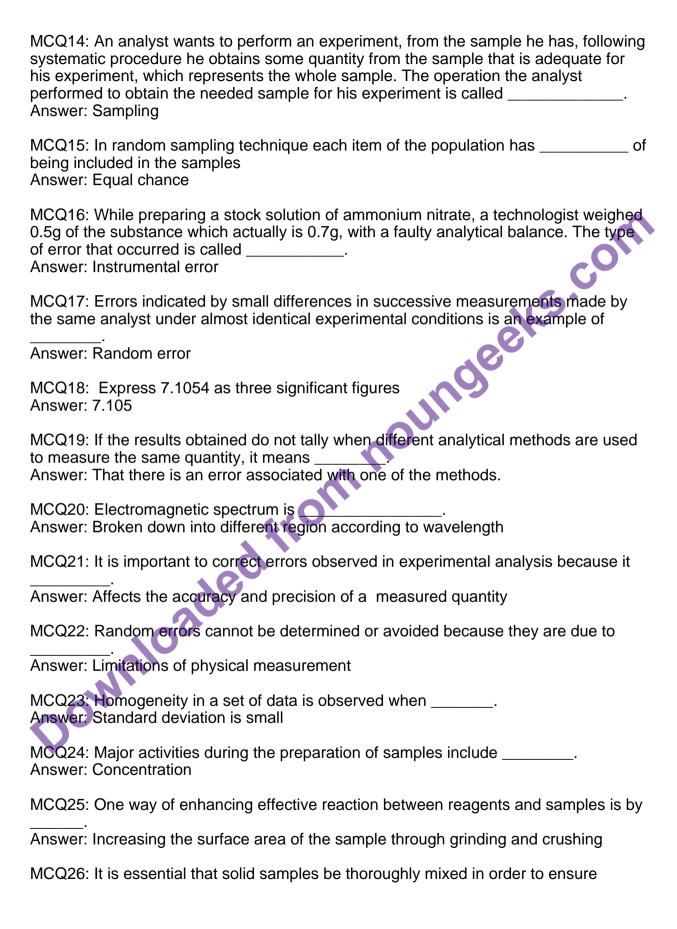
FBQ1: Small value of standard deviation indicates that a set of data isto the mean. Answer: Close
FBQ2: Errors are that naturally accompany the experiment performed. Answer: Variations
FBQ3: When an experiment is performed more than once and the results obtained are compared, the degree of agreement between the results obtained is termed Answer: precision
FBQ4: The last stage of the process of formation of a precipitate is Answer: Crystal growth
FBQ5: The sample container of a spectrometer must be in the wavelength region being measured. Answer: Transparent
FBQ6: A molecule upon absorption of a photon of energy moves to higher energy state called Answer: Excited state
FBQ7: is used to prevent an element from interfering in the analysis of another element. Answer: Masking agent
FBQ8: In complexometric titration, the complex formed with metal ion is called Answer: Chelate
FBQ9: entails dividing a heterogeneous population into varying homogeneous groups or strata and random sample is drawn from each stratum and pooled together. Answer: Stratified sampling
FBQ10: Round off 17.05 to three significant figures. Answer: 17.1
FBQ11: is suitable either when the sample source is known to vary with time or when sample source composition varies in space. Answer: Grab Sample
FBQ12: sample are collected over a predetermined part or to entire depth of an area with respect to location and time. Answer: depth- integrated
FBQ13: The procedure or operations involved in obtaining a laboratory size sample that is a true representative of population or a whole lot for a particular analytical exercise is called

Answer: Sampling
FBQ14: The nature of a must be the same with that of the population and must remain so throughout the analytical exercise. Answer: Sample
FBQ15: The technique which involves pouring the sample so that it takes on a conical shape, and then flattening it out into a cake. The cake is then divided into quarters and two quarters which face opposite one another are discarded, whilst the other two are combined and constitute the reduced sample is called method of sample selection Answer: Coning and Quartering
FBQ16: A good sample is one that the nature is the same with that of the population and remains unchanged in this nature throughout the Answer: Analytical exercise
FBQ17: Composite samples provide more representative sampling of matrices in which the composition of the analyte of interest may vary over a period of time and or space. Answer: Heterogeneous
FBQ18: samples compose of mixture of grab samples collected from different points simultaneously or as nearly so as possible. Answer: Integrated
FBQ19: Samples brought to the laboratory require further Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-
FBQ20: help in eliminating the possible sources of contamination and sample degradation that could lead to sample destruction, and ensure the homogeneity of samples. Answer: Treatment of sample
FBQ21: Analytically experiments requiring reduction of the water content in a sample material can be achieved through Answer: Concentration
FBQ22: involves converting sample material in solid form to solution. Answer: Dissolution
FBQ23: Dry ashing is normally carried out in a Answer: Muffle furnace
FBQ24: is an analytical technique that deals with reactions between measured volumes of a reagent against the test substance called analyte in a

stoichiometric manner. Answer: Volumetric analysis
FBQ25: The process by which the precise concentration of a solution is determined is
Answer: Standardisation
FBQ26: Ideal reagents that produce good result in titrimetric analysis have purity above 99.9 %, this grade of reagents is called Answer: Primary standard
FBQ27: That point in an acid-base titration when the amount of acid added to the base is the exact amount necessary for stoichiometric reaction is Answer: Equivalence point
FBQ28: In titration between a strong base and a weak acid, the titrant is Answer: Strong base
FBQ29: In titration between a strong base and a weak acid, from the first addition of NaOH until before the, there exist a mixture of unreacted HA and the A-produced by the reaction. Answer: Equivalence point
FBQ30: In titration of strong acid against strong base, after reaching equivalence point, pH is determined by the excess in the solution. Answer: H+
FBQ31: Titration error is difference between the Â-Â-Â-Â-Â-Â-Â-Â-â-and end point. Answer: equivalence point
FBQ32: The tendency to oxidise or reduce depends on the of a substance Answer: Reduction potential
FBQ33: The device in which electrolysis of solution takes place is known as
Answer: Electrochemical cell
FBQ34: A typical electrolytic cell is made up of electrodes, salt bridge and
Answer: Electrolyte
FBQ35: In redox titration potentiometer is used to measure concentration of
Answer: analyte in voltage
MCQ1: An acid base titration experiment was repeated three times to get triplicate measurements and it was observed that there was agreement between the replicate measurements; this indicates that there was

Answer: Precision
MCQ2: allow effective attack of reactant by reagent during reaction. Answer: Grinding and crushing
MCQ3: The concentration of a solution whose concentration is unknown can be determined by Answer: Standardisation
MCQ4: analytical technique involves chemical reaction of the analyte/ specie of interest with a reagent which leads to the formation of a product of limited solubility.
Answer: Precipitation gravimetry
MCQ5: The process by which precipitates carry down from solution other constituent that are normally soluble, causing contamination of precipitate is called Answer: Coprecipitation
MCQ6: statistical tool is most frequently used to compare the mean values from experimental procedure. Answer: Variance
MCQ7: The actual point when a reaction is observed complete is known as
Answer: Equivalence point
MCQ8: Precipitation occurs through Answer: Supersaturation - Nucleation and Crystal growth
MCQ9: Spectrometry is a technique. Answer: Quantitative and qualitative
MCQ10: is a device which disperses radiation into its component wavelength. Answer: Monochromator
MCQ11: Confidence level is a statistical tool which enables analyst to determine
Answer: The likelihood that the true value falls within the range
MCQ12: In stratified sampling, the population is divided into varying Answer: Homogenous groups or strata from which random sample is drawn and pooled together
MCQ13: The difference between the true value and the measured value of a set of data is known as Answer: Error



Answer: Radom distribution of the components in the sample
MCQ27: Titration reaction must be Answer: Rapid
MCQ28: The most common form of titration in which titrant is added to the analyte> until reaction is complete is known as Answer: Direct titration
MCQ29: The most obvious application of neutralization titration includes determination of innumerable inorganic, organic and biological species that possess inherent
Answer: Acidic or basic properties
MCQ30: Dry ashing is usually carried out in Answer: A muffle furnace
MCQ31: The difference between equivalence point and end point is known as
Answer: Titration error
MCQ32: Which of these does standard deviation measure? Answer: How closely data cluster about the mean
MCQ33: is the correct sequence of arrangement of the components of a spectrophotometer.
Answer: Source - Monochromator - Sample – Detector- Read out
MCQ34: All of the following are methods of sample preparation except Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-
MCQ35: Which of the following ensure random distribution of components of an
analytical sample?
Answer: Mixing of solid laboratory samples
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