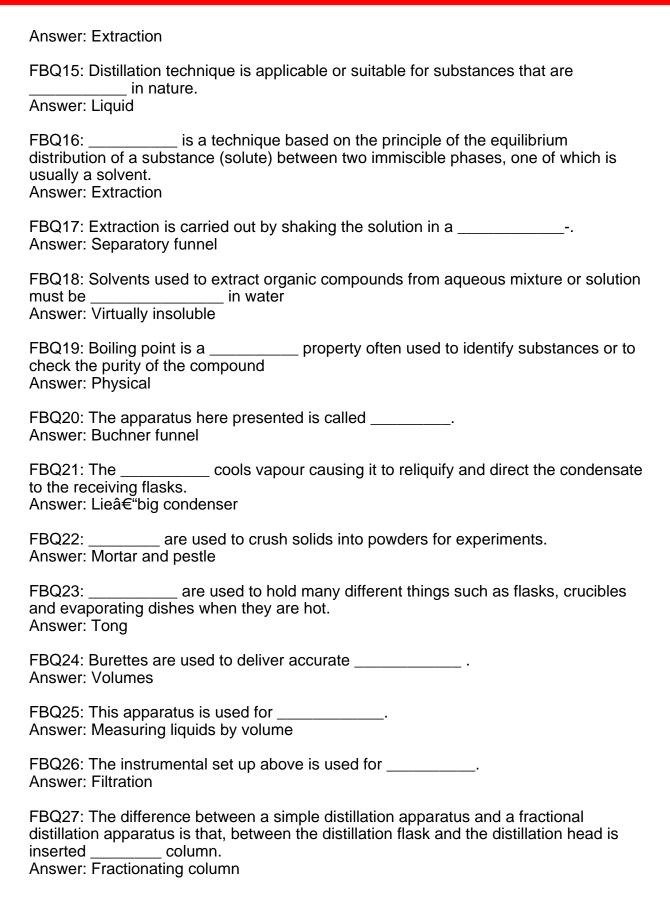
FBQ1: is worn in the laboratory to avoid chemicals splashing into the eyes. Answer: Safety googles
FBQ2: glassware is used to heat and evaporate liquids. Answer: Evaporating dish
FBQ3: is the most precise and accurate method of transferring and delivering liquids.  Answer: Volumetric glassware
FBQ4: Any chemical spilled onto the skin should be washed off immediately with
Answer: Soap and water
FBQ5: Flammable solvents should be boiled away in a Answer: Fume hood
FBQ6: The method of separating liquids from solids that involves allowing the solid to settle in a beaker, then transferring the liquid, or supernatant with the aid of a stirring rod to a receiver is called  Answer: Decanting
FBQ7: To prevent bumping of a hot liquid out of the container, is added. Answer: boiling chip
FBQ8: Reaction requiring low temperature of 00C can be carried out in the laboratory by employing Answer: Ice–water bath
FBQ9: In distillation the resultant hot vapour passes into a and is converted to the liquid.  Answer: Condenser
FBQ10: Vaporisation-condensation cycles is known as  Answer: Theoretical plates
FBQ11: The apparatus below is called Answer: Flat bottom flask
FBQ12: Compounds which are crystallise first in recrystallization/crystallization technique Answer: Less soluble
FBQ13: A suitable recrystallization solvent should be partially in order to be easily removed from the purified crystals.  Answer: Volatile
FBQ14: is the recovery of a substance from a mixture by bringing it into contact with a solvent which dissolves the desired material.



-BQ28: A is defined as the temperature range over which a small amount of solid in a thin walled capillary tube first visibly softens and then completely liquefies.  Answer: Capillary melting point
FBQ29: This apparatus is used for  Answer: Measuring liquids by volume
FBQ30: The presence of a in a crystal lattice interrupts its uniform structure and the forces of attraction are weakened.  Answer: Foreign particle
FBQ31: To avoid the errors in mass due to the use of balances that are not calibrated, one should weigh by a method called  Answer: Weighing by difference
FBQ32: The function of stirring when carrying out a chemical reaction in the laboratory s to the reagents or to aid heat transfer.  Answer: Mix
FBQ33: The process of boiling reactants while continually cooling the vapour returning t back to the flask as a liquid is known as  Answer: Reflux
FBQ34: is often used to heat solutions that boil below about 900C or to neat a mixture to approximately 1000C.  Answer: Steam bath
FBQ35: The most basic technique for the purification of organic solids is
Answer: Recrystallization
MCQ1: In preparing a standard solution, two factors must be considered, namely: Answer: 1.The solute must be pure 2. The suitable solvent should be measure to a definite volume
MCQ2: A solution contains 1.2 Molar concentration, what volume of it must be diluted with water to give 600 mls of 0.5 Molar solution?  Answer: 25 mls
MCQ3: In a chemistry laboratory a stoke bottle of acid solution reads, "1.25 specific gravityâ€□; what does that mean? Answer: 1 cm3 of that solution weight 1.25 g
MCQ4: If 2 cm3 of a stoke solution contains 1 mole of an acid how would you prepare 1 molar concentration of that acid in 250 cm3 of water?  Answer: Dissolve 2 cm3 of the stoke solution in 248 cm3 of water
MCQ5: A substance which loses water of hydration upon exposure to atmosphere is

called?

Answer: Efflorescence substance

MCQ6: A substance which takes in only moisture upon exposure to atmosphere is

referred to as?

Answer: Deliquescent substance

MCQ7: A table of requirement for laboratory experiment contains the following except?

Answer: List of weight of each reagents

MCQ8: Give reason why water should not be added to acid during carrying out acid-

base titration?

Answer: The dissolution of acid in water is exothermic which may cause explosion

MCQ9: The concentration of pure HCl 11.7 Molar if 20 cm3 of the acid is diluted to 250 cm3 to give concentration of 0.936 mol.dm3 substitute this values on this equation;

CIVI=C2V2?

Answer: 11.7 X 20 = 0.936 X 250

MCQ10: The point at which stoicheometrically equivalent quantities of substance have

been brought together is known as? Answer: Equivalence point of titration

MCQ11: Which of the following options is an indicator used for acid-base titration?

Answer: Methyl orange

MCQ12: In an acid base titration conducted by a student, the colour of the solution in the beaker changed from colourless to pink when phenolphthalein was used as an indicator, what went wrong?

Answer: The beaker was occupied by acid solution instead of base.

MCQ13: What is a PH of a solution?

Answer: It is the measure of hydrogen ions concentration in the solution

MCQ14: At neutralization point, the PH value is?

Answer: Seven

MCQ15: At complete neutralization point, the litmus paper colour turns?

Answer: Purple

MCQ16: Predict the colour of methyl orange when pH is 8?

Answer: Yellow

MCQ17: What is the colour of bromothymol when added to an acid solution?

Answer: Yellow

MCQ18: An indicator X was added to an acid solution in a beaker but no colour change

was observed give the name of the indicator X?

Answer: Phenolphthalein

MCQ19: What is a strong acid?

Answer: Any acid that ionizes completely in solution

MCQ20: An example of a strong acid is?

Answer: H2SO4

MCQ21: What type of indicator will be suitable for use in a titration involving H2SO4 +

NH3(ag)?

Answer: Methyl orange

MCQ22: Which of these indicators will be suitable for use in a titration involving a weak

acid and a strong base? Answer: Phenolphthalein

MCQ23: What is the implication of adding a phenolphthalein as an indicator during the

titration of HCl against Na2CO3?

Answer: The end point will appear when only half of Na2CO3 has been used

MCQ24: What is the importance of back titration?

Answer: To determine the concentration of a substance that is in excess after a

chemical reaction.

MCQ25: A 25 ml solution of 0.5 M NaOH is titrated until neutralized into a 50 ml sample

of HCI?

Answer: 0.25 mol

MCQ26: A student used a hard tap water and performed and acid base titration. In few

lines explain what would happen to his result?

Answer: the starting solution would be more alkaline therefore it would require more

volume of acid than expected

MCQ27: Choose the most suitable water for use in acid base titration?

Answer: Deionised water

MCQ28: Both molarity and normality are measures of concentration. True or false?

Answer: True

MCQ29: During acid-base titration sulphuric acid would be dissociated into what ions?

Answer: 2H+ + SO4-

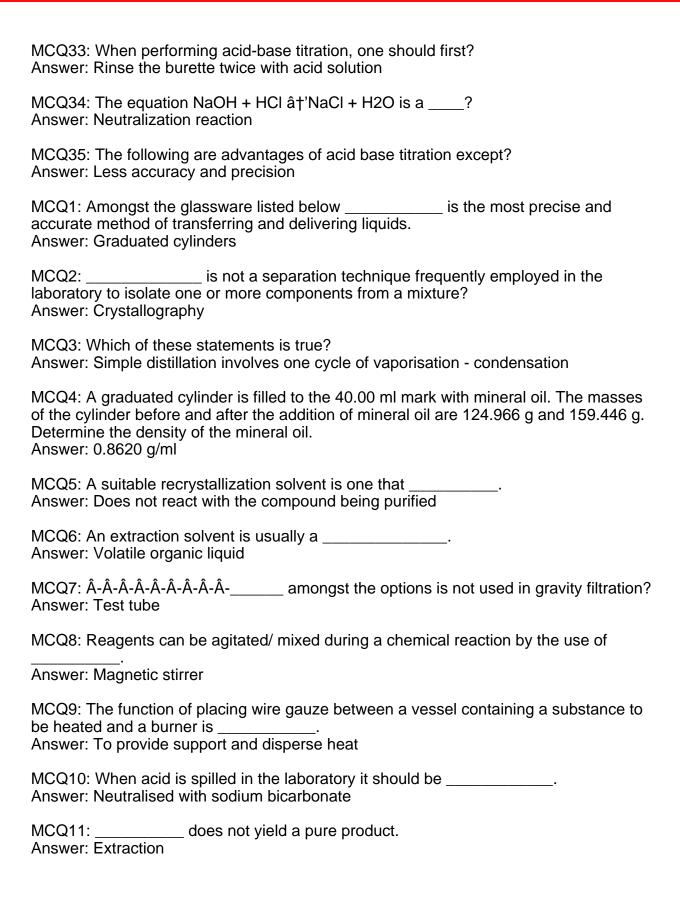
MCQ30: What is a titrand in titration analysis? Answer: Unknown concentration of an analyte

MCQ31: What is a titrant in titration analysis?

Answer: Known concentration and volume of an analyte

MCQ32: Which of these is a method of finding the equivalence point?

Answer: All of the options



gas phase. Answer: Dipole - dipole interactions  MCQ13: One of the disadvantages of wearing loose sleeves to the laboratory during a practical class is Answer: They can sweep flasks from the laboratory bench  MCQ14: provides a large surface area in which the initial distillate is redistilled and condensed again. Answer: Fractionating column  MCQ15: Amongst the various means/method of heating is used to heat a mixture for extended periods and at certain temperatures. Answer: Refluxing  MCQ16: Separatory funnel is used to separate Answer: Two immiscible liquids  MCQ17: will not provide heat of over 1000C ? Answer: Heating mantle  MCQ18: is ideal for measuring liquids by volume. Answer: Graduated cylinder  MCQ19: is not a volumetric glassware. Answer: Round bottom flask  MCQ20: Darkened brown or amber glass is used to Answer: Keep out much of UV and IR radiation  MCQ21: Reactions requiring low temperatures can be achieved using all of the options provided to maintain low temperature except Answer: Liquid helium  MCQ22: Glassware are used for experiments in the Chemistry laboratory because Answer: They are relatively inert, transparent and more heat-resistant  MCQ23: Which of these is/are more accurate and precise in taking weight measurements? Answer: Digital balance  MCQ24: The principle of separation of insoluble solid from a liquid by filtration is based on Answer: Gravity  MCQ25: All of the following can be used to separate liquids from solids except	MCQ12: bonds are broken during a change from the liquid ph	nase to the
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		xcept

Answer: Distillation
MCQ26: Extraction is used for the separation of materials that are in nature.
Answer: Liquid and solid
MCQ27: Using an unclean volumetric glassware during experiment will  Answer: Reduce precision
MCQ28: What does the symbol below represent in the Chemistry laboratory. Answer: Toxic
MCQ29: Which of the following is not employed in heating? Answer: Drying agent
MCQ30: Extraction is carried out by shaking the solution with a second solvent that is with the one in which the compound is dissolved.  Answer: Immiscible
MCQ31: Amongst the options listed below is a better choice for the heating of flammable substances.  Answer: Steambath
MCQ32: Substances that absorb water if left exposed to the air are kept dry in the laboratory by placing them in  Answer: A dessicator
MCQ33: is used to hold solids when being weighed. Answer: Watch glass
MCQ34: A chemist would determine several physical and chemical properties of a compound because  Answer: It is possible for two different compounds to have a few identical physical and chemical properties.
MCQ35: is the most common extraction solvent. Answer: Ethyl ether