FBQ1: Answer: Safety g	is worn in the laboratory to avoid chemic googles	cals splashing into the eyes.
FBQ2: Answer: Evapora	glassware is used to heat and evapor ating dish	rate liquids.
FBQ3:delivering liquids. Answer: Volumet		hod of transferring and
FBQ4: Any chem	nical spilled onto the skin should be washed	off immediately with
 Answer: Soap an	id water	
FBQ5: Flammabl Answer: Fume ho	le solvents should be boiled away in a bod	
settle in a beaker	od of separating liquids from solids that invo r, then transferring the liquid, or supernatant is called ng	
FBQ7: To prever Answer: boiling c	nt bumping of a hot liquid out of the containe chip	er, is added.
FBQ8: Reaction by employing Answer: Ice–w	requiring low temperature of 00C can be car rater bath	rried out in the laboratory
FBQ9: In distillati converted to the Answer: Condens		and is
FBQ10: Vaporisa Answer: Theoreti	ation-condensation cycles is known as ical plates	·
FBQ11: The appa Answer: Flat bott	aratus below is called com flask	
FBQ12: Compou crystallization tec Answer: Less sol		st in recrystallization/
	le recrystallization solvent should be partially ed from the purified crystals.	y in order to
	is the recovery of a substance from a lvent which dissolves the desired material.	mixture by bringing it into

Answer: Extraction
FBQ15: Distillation technique is applicable or suitable for substances that are in nature.  Answer: Liquid
FBQ16: is a technique based on the principle of the equilibrium distribution of a substance (solute) between two immiscible phases, one of which is usually a solvent.  Answer: Extraction
FBQ17: Extraction is carried out by shaking the solution in a  Answer: Separatory funnel
FBQ18: Solvents used to extract organic compounds from aqueous mixture or solution must be in water Answer: Virtually insoluble
FBQ19: Boiling point is a property often used to identify substances or to check the purity of the compound Answer: Physical
FBQ20: The apparatus here presented is called Answer: Buchner funnel
FBQ21: The cools vapour causing it to reliquify and direct the condensate to the receiving flasks.  Answer: Lie–big condenser
FBQ22: are used to crush solids into powders for experiments. Answer: Mortar and pestle
FBQ23: are used to hold many different things such as flasks, crucibles and evaporating dishes when they are hot.  Answer: Tong
FBQ24: Burettes are used to deliver accurate Answer: Volumes
FBQ25: This apparatus is used for Answer: Measuring liquids by volume
FBQ26: The instrumental set up above is used for Answer: Filtration
FBQ27: The difference between a simple distillation apparatus and a fractional distillation apparatus is that, between the distillation flask and the distillation head is inserted column.  Answer: Fractionating column

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 is to the reagents or to aid heat transfer.  Answer: Mix
FBQ33: The process of boiling reactants while continually cooling the vapour returning it 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 heat 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(aq)?

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

MCQ33: When performing acid-base titration, one should first? Answer: Rinse the burette twice with acid solution
MCQ34: The equation NaOH + HCl â†'NaCl + H2O is a? Answer: Neutralization reaction
MCQ35: The following are advantages of acid base titration except? Answer: Less accuracy and precision
MCQ1: Amongst the glassware listed below is the most precise and accurate method of transferring and delivering liquids.  Answer: Graduated cylinders
MCQ2: is not a separation technique frequently employed in the laboratory to isolate one or more components from a mixture? Answer: Crystallography
MCQ3: Which of these statements is true? Answer: Simple distillation involves one cycle of vaporisation - condensation
MCQ4: A graduated cylinder is filled to the 40.00 ml mark with mineral oil. The masses of the cylinder before and after the addition of mineral oil are 124.966 g and 159.446 g. Determine the density of the mineral oil. Answer: 0.8620 g/ml
MCQ5: A suitable recrystallization solvent is one that  Answer: Does not react with the compound being purified
MCQ6: An extraction solvent is usually a  Answer: Volatile organic liquid
MCQ7: Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-Â-A-A-A-A-A-A-A-A
MCQ8: Reagents can be agitated/ mixed during a chemical reaction by the use of
Answer: Magnetic stirrer
MCQ9: The function of placing wire gauze between a vessel containing a substance to be heated and a burner is  Answer: To provide support and disperse heat
MCQ10: When acid is spilled in the laboratory it should be  Answer: Neutralised with sodium bicarbonate
MCQ11: does not yield a pure product. Answer: Extraction

MCQ12:	bonds are broken during a change from the liquid phase to the
gas phase.	
Answer: Dipole - dip	ole interactions
MCQ13: One of the practical class is	disadvantages of wearing loose sleeves to the laboratory during a weep flasks from the laboratory bench
Answer: They can so	weep flasks from the laboratory bench
MCQ14: redistilled and conde Answer: Fractionatin	
MCQ15: Amongst th mixture for extended Answer: Refluxing	e various means/method of heating is used to heat a periods and at certain temperatures.
MCQ16: Separatory Answer: Two immisc	funnel is used to separate
MCQ17: Answer: Heating ma	funnel is used to separate
MCQ18: i Answer: Graduated	s ideal for measuring liquids by volume. cylinder
MCQ19:	is not a volumetric glassware.
	rown or amber glass is used to nuch of UV and IR radiation
MCQ21: Reactions r provided to maintain Answer: Liquid heliu	equiring low temperatures can be achieved using all of the options low temperature except
MCQ22: Glassware	are used for experiments in the Chemistry laboratory because
Answer: They are re	latively inert, transparent and more heat-resistant
MCQ23: Which of th measurements? Answer: Digital balar	ese is/are more accurate and precise in taking weight
MCQ24: The princip on Answer: Gravity	le of separation of insoluble solid from a liquid by filtration is based
MCQ25: All of the fo	llowing can be used to separate liquids from solids except

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 is used to hold solids when being weighed. MCQ33: 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. s the most common extraction solvent. MCQ35: Answer: Ethyl ether