

FBQ	The process by which traces of water is removed by treating the liquid with suitable drying agents is called	Dehydration	
FBQ	The separation technique employed to purify an organic liquid or to separate mixtures of liquids of different volatilities or boiling points is called	Distillation	
FBQ	A separation technique that is used to isolate a desired solid from a solid -liquid mixture or for freeing a desired liquid of solid impurities is called	Filtration	
FBQ	The reagent that will not make any significant contribution to the theoretical yield is	Limiting reagent	
FBQ	A high percentage yield implies that	successful reaction	
FBQ	The reagent with a stoichiometric amount (in moles) that limits the amount of desired product (in moles) formed is called	Limiting reagent	
FBQ	The actual yield of product (in g or moles) expressed as a percentage of the theoretical yield (in g or moles) is called	Percentage yield	
FBQ	The number of protons or electrons in the atom of an element is equal to the of the element.	Atomic number	
FBQ	Calculate the [OH^{-}] of an aqueous solution of Ph=11	\$\$1× 10^{-3}M\$\$	
FBQ	An acid HA has a pka of 4.5, what is the Ka value?	\$\$3.2 × 10^{-5}\$\$	
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An acid HA has a pka of 4.5. What is the concentration of \$\$H_{3}^{+} \$\$ in 0.110M solution of the acid?	\$\$1.876 × 10^{-3}\$\$					
Calculate the \$\$[H^{+}] \$\$of an aqueous solution wity \$\$[OH^{-}] of 1× 10^{-10}M\$\$. What is the pH of the solution? Is the solution acidic or basic?	4					
When two or more elements combine chemically in fixed proportion by mass,	Compounds					
A mixture in which the components are evenly distributed and the composition is uniform throughout the mixture is called mixture.	Homogeneous					
Dissolution 0f sodium chloride in water results in type of mixture	Homogeneous					
The types of mixtures are	Homogeneous, Heterogeneous					
Convert 2 moles of NaOH to grams of NaOH. Answer is	80g					
The molar mass of \$\$Na_{2}CO_{3}\$\$	106g					
When propane reacts with oxygen, the products are and	carbon dioxide, water.					
Convert 500g of \$\$ Na_{2}CO_{3}\$\$ to moles	4.717mol					
	Convert 500g of \$\$	Convert 500g of \$\$ 4.717mol				

FBQ	A compound in grams is converted to moles by diving by	Molar mass			
FBQ	The smallest unitof a compound that manifest all the chemical properties of the compound is called	Molecule			
FBQ	A mixture in which the components are not evenly distributed and the composition is not uniform is called mixture.	Heterogeneous			
FBQ	Mixtures with particle sizes between 2 to 1000 nanometre are called	colloids			
FBQ	The label on a stock bottle of acid reads : 56% by mass and 1.25 specific gravity. If the molar mass of the acid is 56, what is the the concentration in grams per dm_{3}	700g			
FBQ	Mixtures with particle sizes greater than 1000 nanometres are called	Suspensions			
FBQ	Mixture made up of sand and iron filing is a type of mixture	Heterogeneous			
FBQ	The formula for sodium carbonate is	\$\$Na_{2}CO_{3}\$\$			
FBQ	The formula for caustic soda is	NaOH			
FBQ	In balancing this equation \$\$Na_{2}CO_{3}→? NaOH + CaCO_{3}\$\$.? is	2			
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FBQ	In a solution , the component in smaller amount is called	solute			
FBQ	In a solution, the component in larger amount is called	solvent			
FBQ	A substance that is made up of two or more substances which are not chemically combined is called	Mixture			
FBQ	Calculate the percentage by mass of Hydrogen in \$\$NH_{3}\$\$	0.1775			
FBQ	Calculate the percentage by mass of Nitrogen in \$\$NH_{3}\$\$	0.8225			
FBQ	0.0055 has significant figure(s)	2			
FBQ	The amount of product obtained from an experiment is called	actual yield			
FBQ	The amount of product expected from given amounts of starting materials is called	Theoretical yield			
FBQ	In a chemical reaction, the balanced chemical equation which shows the quantitative relationship between masses of reactants and products is known as	Stoichiometry of the reaction			
FBQ	The amount of energy required to break a particular bond is called	Bond dissociation energy			
FBQ	12.25mL has significant figure(s)	4			

FBQ	Calculate the percentage by mass of Oxygen in \$\$CH_{3}OH\$\$	0.4995		
FBQ	Calculate the percentage by mass of Hydrogen in \$\$CH_{3}OH\$\$	0.1259		
FBQ	Calculate the percentage by mass of carbonlin \$\$CH_{3}OH\$\$	0.3746		
FBQ	An organic compound was found by analysis to contain 42.90% carbon, 2.40% Hydrogen , 16.70% Nitrogen and 38.0% of oxygen. Calculateits empirical formular. (Relative atomic masses : C=12.00, H=1.008, N=14.00, O=16.00).	\$\$C_{3}H_{2}NO_{2}\$\$		
FBQ	6.02X10^{23} is called	Avogadro number		
FBQ	A chemical formula which shows the actual numbers and types of atoms present in one molecule of a compound is called	Molecular formula		
FBQ	A chemical formular which represents the elemental composition of a formula unit of the compound in terms of smallest whole number ratios of the atoms present is called	Empirical formular		
FBQ	The number of atoms in the atomic mass of every element is called	mole		
FBQ	The unit of mole is	mol		
FBQ	Calculate the formular mass of potassium carbonate.(Relative atomic masses : K=39.10amu, C=12.01amu, 16.00amu).	138.21amu		

EDO	The empirical formula	\$\$C [6]U [4]N [0]O (4)\$\$				
FBQ	The empirical formula obtained for a compound is \$\$ C_{3}H_{2}NO_{2}\$\$. The gram molecular mass of the compound is found to be 168g. Determine its molecular formular. (Relative atomic masses: C=12.00, H=1.008, N=14.00, O=16.00).	\$\$C_{6}H_{4}N_{2}O_{4}\$\$				
MCQ	A substance with a pH value of >7< 10 is a	Strong acid	Weak acid	Weak base	Strong base	С
MCQ	If actual yield of an ester is 32.7g and theoretical yield is 35.1g .What is the percentage yield of the ester?	0.0932	0.932	0.0093	0.009	В
MCQ	The formular obtained by multiplying the number of each atom in the empirical formular by n is called	Molecular formula	Structural formula	Chemical formula	None of the above	A
MCQ	There are types of titrimetric analysis.	5	4	3	2	В
MCQ	In titration, the experimentally determined stoichiometric point of the titration is referred to as	Flash point	Critical point	Equivalence point	stop point	С
MCQ	In a standardization titration involving hydrochloric acid and sodium carbonate, a student recorded the following results for the volume of hydrochloric acid used against 10.00mL of the sodium carbonate solution: 15.60; 14.50; 14.70 aqnd 14.20. If the concentration of the \$\$Na_{2}CO_{3}\$\$ standard solution is 0.75moldm^-3, calculate the concentration of the HCI solution	1.02 MI	1.03mL	1.07mL	1.04M	В
MCQ	The number of gramequivalent weight of solute in one cubic decimeter of solution is	Molality	Molarity	Normality	Norlality	С
MCQ	There are different techniques for determination of an unknown sample in titrimetric analysis.	5	4	3	2	С
MCQ	The solution whose concentration is known is called	titre value	titrant	supersaturated solution	saturated solution	В

MCQ	The concentration of the pure HCl used is 11.7 molar. If \$\$20.0cm^{3}\$\$ V1 of 1 1.7 molar of \$\$C_{1}\$\$ of HCl is diluted to 250cm^{3} of V_{2}, then the new concentration C_{2} will be	\$\$0.825 moles dm^{-3}\$\$	\$\$0.936moles dm^{-3}\$\$	\$\$9.36moles dm^{-3}\$\$	\$\$0.718moles dm^{-3}\$\$	В
мса	The procedure by which a solution of known concentration iss Added to another solution until the chemical reaction between the two ssolutes is complete is	volumetric analysis	Gravimetric analysis	Titrimetric analysis	qualitative analysis	С
MCQ	From the equation \$\$2HCI + Na_{2}CO_{3} → 2NaCI + CO_{2} + H_{2}O\$\$, given that 2 moles of HCI reacted with 1 mole of \$\$Na_{2}CO_{3}\$\$. What was the concentration of the acid?	\$\$0.103moldm^{-3}\$\$	\$\$1.03moldm^{-3}\$\$	\$\$10.3moldm^{-3}\$\$	\$\$103moldm^{-3}\$\$	В
MCQ	\$\$The label on a stock bottle of an acid reads: 56% by mass and 1.25 specific gravity. If the molar mass of the acid is 56, find the volume of this acid that is required to prepare 250cm^{3} of 1.0 molar concentration of the acid\$\$.	\$\$2.0cm^{3}\$\$	\$\$3.0cm^{3}\$\$	\$\$4.0cm^{3}\$\$	\$\$5.0cm^{3}\$\$	A
MCQ	3.47g sodium carbonate was dissolved in a 250millilitre standard flask. What is the concentration of the resulting solution	0.13M	0.52M	0.66M	0.40M	A
MCQ	\$\$The label on a stock bottle of an acid reads: 56% by mass and 1.25 specific gravity. If the molar mass of the acid is 56, find the moles per dm^{3}\$\$	\$\$12.5moldm^{3}\$\$	\$\$25.5moldm^{3}\$\$	\$\$35.5moldm^{3}\$\$	\$\$45.5moldm^{3}\$\$	A
MCQ	The residue of a chemical reaction is allowed to cool in a	furnace	dessicator	oven	fume cupboard	В
MCQ	In this equation \$\$2NaHCO_{3} → Na_{2}CO_{3} + ? + CO_{3}\$\$, the compound represented by ? is	NO	\$\$NO_{2}\$\$	\$\$N_{2}O\$\$	\$\$NO_{3}\$\$	С
MCQ	When a substance is not available in a pure form, its solution can be standardized by	Re- crystallizing the substance and diluting it	Titrating againt a substance of unknown concntration	Titrating against a substance of known concentration	Preparing a new solution of the substance	С
MCQ	A standard solution is a	Dilute solution	Solution of known concentration	Concentrated solution	Measured solution	В

MCQ	A standard solution of a substance can be prepared if the substance can be obtained in state.	impure state	pure state	neutral state	acidic state	В
MCQ	What is the oxidation state of chromium in potassium dichromate?	\$\$+1\$\$	\$\$+4\$\$	\$\$+6\$\$	\$\$+7\$\$	С
MCQ	\$\$The label on a stock bottle of an acid reads: 56% by mass and 1.25 specific gravity. If the molar mass of the acid is 56, find the concentrationin grams per dm{3}\$\$.	\$\$500g/dm^{3}\$\$	\$\$600g/dm^{3}\$\$	\$\$700g/dm^{3}\$\$	\$\$900g/dm^{3}\$\$	С
MCQ	A solution of which the concentration is accurately known is	Saturated solution	Super saturated solution	oversaturated solution	Standard solution	D
MCQ	\$\$Weight of solute in gram per volume of solutions in cm^{3}\$\$ multiplied by 100 is	page of weightercent	percentage of volume	percentage weight by volume	percentage volume by weight	С
MCQ	Moles of solute per volume of ssolution in one cubic decimeter is	Molality	Molarity	Normality	Norlality	В
MCQ	If \$\$15cm^{3}\$\$ of 10.25M HCI solution is made up to volume in a 500mL volumetric flask, what will be its new concentrion?	0.306M	3.06M	5.13M	0.52M	В
MCQ	The pH scale range is	0 to 10	0 to 12	0 to 14	0 to 16	С
MCQ	The product represented by the ? in the equation \$\$CH_{3}COO^{-}+ H^{+} + Na^{+} + OH^{-} ?+ H_{2}O\$\$ is	\$\$CH_{3}CONa_{+}\$\$	\$\$CH_{3}COONa\$\$	\$\$CH_{3}COO^{-}Na^{+}\$\$	\$\$CH_{3}COOONa\$\$	С
MCQ	The reactant represented by the ? In the equation $$H_{2}O^{+}$$ +\$\$?\$\$ \rightarrow \$\$2H_{2}O\$\$ is	\$\$H_{2}O\$\$	\$\$OH^{-}\$\$	\$\$H_{2}\$\$	\$\$O_{2}\$\$	В
MCQ	In a typical expeiment in a laboratory, 4.50g of sulphuric acid in \$\$250cm^{3}\$\$ of water was titrated with an impure solution of 5.24g of sodium hydroxide contained in \$\$1dm_{3} \$\$. If the titre values of the experiment were \$\$20.50\$\$, \$\$22.45\$\$, \$\$22.60\$\$ and \$\$22.50cm^{3}\$\$ respectively. Determine the amount in moles of the acid.	\$\$0.05mol\$\$	\$\$0.0013mol\$\$	\$\$0.058mol\$\$	\$\$0.131mol\$\$	В
MCQ	The oxidation state of cromium in \$\$Cr_{2}O_{7}^{2-}\$\$ is	\$\$-3\$\$	\$\$+3\$\$	\$\$-6\$\$	\$\$+6\$\$	D

MCQ	The heat of reaction is measured by the use of	Thermometer	Barometer	Calorimeter	Ammeter	С
MCQ	What is the oxidation state of iodine in iodate ion?	\$\$+5\$\$	\$\$+6\$\$	\$\$+7\$\$	\$\$+8\$\$	С
MCQ	If the mass of an impure acid is 18.0g and mass of impurity is 12.3g, calculate the percentage impurity of the solution.	0.4833	0.5833	0.6833	0.7833	С
MCQ	The titrimetric analysis involving the titration of EDTA, an organic ligand with a calcium solution cxould be classified as titration.	Acid -base	Redox	Precipitation	Complexometric	D
MCQ	The titration involving potassium permanganate ,\$\$KMnO_{4}\$\$ and ferrous sulphate \$\$FeSO_{4}\$\$ is an example of atitration.	Acid-base	Oxidation-reduction	Precipitation	Complexometric	В
MCQ	All thesse are examples of exothermic reactionss EXCEPT	Addition of concentrated acids to water	Neutralissation reactions	Addition of ammonium chloride to water	Addition of potassium hydroxide pellets to water	С
MCQ	A suitable indicator for titration between weak acid and strong base is	Any indicator	Methyl orange	Phenolphthalein	No suitable	С
MCQ	A substance that loses an electron is said to be	Reduced	Oxidized	Hydrolyzed	carbonized	В
MCQ	The reaction between aqueous sodium hydroxide and aqueous hydrochloric acid is a reaction	Decompossition	Double decomposition	Neutralisation	Addition	С
MCQ	The pH of a solution is a measure ofconentration of the solution.	Hydrogen ion	Water	Carbon dioxide	Metal ion	А
MCQ	If a reaction is carried out at a constant pressure, the absolute value of the heat of reaction is equal to the absolute value of the of the reaction	Enthalphy	Entrophy	Exotherm	Endotherm	A
MCQ	A process that is accompanied by a heat gain is said to be	Endothermic	Exothermic	symbiotic	none of the above	A
MCQ	The titration of a strong acid against a weak base is suitably carried out using	Any indicator	Methyl orange	Phenolphthalein	Bromothymol blue	В

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MCQ	The oxidation state of C in \$\$H_{2}C_{2}O_{4}\$\$ is	\$\$-2\$\$	\$\$+2\$\$	\$\$ -4\$\$	\$\$ +4\$\$	D
MCQ	Calculate the number of mole contained in a solution of tetraoxosulphate VI acid, if the titre value on titration against \$\$20cm^{3}\$\$ 0.5 M sodium carbonate is \$\$20.24cm^{3}\$\$.	0.02mol	0.04mol	0.01mol	0.15mol	С
MCQ	The sum of the oxidation states of all elements in a neutral compound add to	zero	one	two	negative one	A
MCQ	A metal X that raects with metal Y in a solution of Y but does not react with Z in a solution of Z means that	Metal Y is the least reactive	Metal X is the least reactive	Metal Z is the least reactive	Metal Y and metal Z have equal reactivity	A
MCQ	The SI designation candela is forbase unit.	Electric current	Luminous intensity	Amount of substance	Temperature	В
MCQ	The pH of a solution is a measure of the	Hydroxide ion concentration	Hydrogen ion concentration	carbon concentration	Nitrogen concentration	С
MCQ	The first aid given to a person that ingested poisonous chemical in the laboratory include all these EXCEPT	cold water to drink	Cold milk to drink	inducing vomiting	seek emergency medical assistance	С
MCQ	The second action to perform to resucitate a victim of gas inhaltion in the laboratory is to	Remove the victim from danger area	Apply artificial respiration	Loosen clothing	Immediately seek emergency medical assistance	С
MCQ	Towards the point, both coloured forms will be present in appreciable quantities.	starting point	middle point	end - point	neutral	С
MCQ	A measure of the hydrogen ion concentration in a solution is	acidity	basicity	Ph	Neutrality	С
MCQ	An indicator that is colourless in acidic solution is	methyl orange	methyl red	phenophtalein	cresol blue	В
MCQ	When an alkalis chemical splashes into the eye, the second action to be carried out is	Apply 1% sodium carbonate	Apply 1% boric acid solution	Flush the eye with a copious amount of clean lukewarm running water	Put eye drop	В
MCQ	Acid base titration involves a reaction	Esterification	Neutralization	Redox	Decomposition	В
MCQ	When an acidic chemical splashes into the eyes, the first thing to do is	Apply 1% sodium carbonate	Apply 1% boric acid solution	Flush the eye with a copious amount of clean lukewarm running water	Put eye drop	С
MCQ	Do not use flat-bottomed flasks in in vacuum experiment is ahazard	Explosion	Fire	Chemical	General safety	A

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