## صeExam Question Bank

## Coursecode:

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| $\square$ | MCQ | The concentration of the pure HCl used is 11.7 molar. If $\$ \$ 20.0 \mathrm{~cm}^{\wedge}\{3\} \$ \$$ V1 of 11.7 molar of \$\$C_\{1\}\$\$ of HCl is diluted to $250 \mathrm{~cm}^{\wedge}\{3\}$ of $\mathrm{V} \_\{2\}$, then the new concentration C_\{2\} will be $\qquad$ | \$ $\$ 0.825$ moles $\mathrm{dm}^{\wedge}\{-3\} \$ \$$ | $\begin{aligned} & \$ \$ 0.936 \text { moles } \\ & \mathrm{dm}\{-3\} \$ \$ \end{aligned}$ | \$\$9.36moles dm^\{-3\}\$\$ | $\begin{aligned} & \$ \$ 0.718 \text { moles } \\ & d m^{\wedge}\{-3\} \$ \$ \end{aligned}$ | B |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\square$ | MCQ | 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 $\qquad$ | volumetric analysis | Gravimetric analysis | Titrimetric analysis | qualitative analysis | C |
| $\square$ | MCQ | From the equation $\$ \$ 2 \mathrm{HCl}$ <br> $+\mathrm{Na} \_\{2\} \mathrm{CO} \_\{3\} \rightarrow 2 \mathrm{NaCl}+$ CO_\{2\} + H_\{2\}O\$\$, given that 2 moles of HCl reacted with 1 mole of \$\$Na_\{2\}CO_\{3\}\$\$. What was the concentration of the acid? | \$\$0.103moldm^\{-3\}\$\$ | \$\$1.03 moldm^\{-3\}\$\$ | \$\$10.3moldm^\{-3\}\$\$ | \$\$103moldm^\{-3\}\$\$ | B |
| $\square$ | 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 $250 \mathrm{~cm} \wedge\{3\}$ of 1.0 molar concentration of the acid\$\$. | \$ $\$ 2.0 \mathrm{~cm}^{\wedge}\{3\} \$ \$$ | \$ $\$ 3.0 \mathrm{~cm} \wedge\{3\} \$ \$$ | \$\$4.0cm^\{3\}\$\$ | \$ $\$ 5.0 \mathrm{~cm} \wedge\{3\} \$ \$$ | A |
| $\square$ | MCQ | 3.47 g 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 |
| $\square$ | 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 $\mathrm{dm}^{\wedge}\{3\} \$ \$$ | \$\$12.5moldm^\{3\}\$\$ | \$\$25.5moldm^\{3\}\$\$ | \$ $\$ 35.5 \mathrm{moldm}^{\wedge}\{3\} \$ \$$ | \$\$45.5moldm^\{3\}\$\$ | A |
| $\square$ | MCQ | The residue of a chemical reaction is allowed to cool in a $\qquad$ | furnace | dessicator | oven | fume cupboard | B |
| $\square$ | MCQ | In this equation \$\$2NaHCO_\{3\} $\rightarrow$ $\mathrm{Na} \_\{2\} \mathrm{CO} \_\{3\}+$ ? + CO_\{3\}\$\$, the compound represented by ? is $\qquad$ . | NO | \$\$NO_\{2\}\$\$ | \$\$N_\{2\}O\$\$ | \$\$NO_\{3\}\$\$ | C |
| $\square$ | MCQ | When a substance is not available in a pure form, its solution can be standardized by $\qquad$ | 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 | C |
| $\square$ | MCQ | A standard solution is a $\qquad$ | Dilute solution | Solution of known concentration | Concentrated solution | Measured solution | B |


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



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



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