


CLASS XII  
CHEMISTRY CBT  
NOVEMBER 2023  
QP AND ANALYTICS

Q NO	CHAPTER	QUESTION	OPTIONS PROVIDED	CORRECT OPTION	EXPLANATION	% ATTEMPTED CORRECTLY
01	CARBOXYLIC ACID ( FUNCTIONAL GROUP III )	<p>The natural bacterial fermentation of milk produces a compound called propanoic acid. Propanoic acid is partly responsible for the flavour of Swiss cheese.</p>  <p>Which starting materials could be used to produce propanoic acid?</p> <ol style="list-style-type: none"> <li>1. <math>\text{CH}_3\text{CH}_2\text{CN}</math></li> <li>2. <math>\text{CH}_3\text{CH}_2\text{CHO}</math></li> <li>3. <math>\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}</math></li> </ol>	<p>A. 1 &amp; 2 B. 2 &amp; 3 C. 1 &amp; 3 D. 1,2 &amp; 3</p>	D	All the three compounds can be used for preparation of Final Product following Hydrolysis or Oxidation Mechanism	42.60 %
02		Alkaline Hydrolysis is also Known as	<p>A. Saponification B. Esterification C. Hydration D. Alkalisiation</p>	A	Saponification is the Alkaline Hydrolysis of SoapsA	62.50 %
03		$\text{CH}_3\text{COCl} \xrightarrow[\text{BaSO}_4]{\text{Pd, H}_2} \text{X}; \text{ then X is?}$	<p>A. Ethanal B. Propanal C. Acetone D. Acetic Acid</p>	A	Reduction of Aldehydes called Rosenmund Reaction	57.90 %
04		<p>Assertion : <math>\text{HCOOH}</math> formic acid add react with <math>\text{H}_2\text{SO}_4</math> to form <math>\text{CO}</math>. Reason : <math>\text{H}_2\text{SO}_4</math> is mild (moderate) oxidizing agent.</p>	Assertion and Reason both are true but Reason is not the correct explanation of Assertion.	38 %		
05		<p>Assertion : Carboxylic acids have higher boiling points than alkanes. Reason : Carboxylic acids are resonance hybrids.</p>	Assertion and Reason both are true but Reason is not the correct explanation of Assertion.	55.40 %		

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06	NITROGEN CONTAINING COMPOUNDS – AMMINES	<b>Assertion : Aromatic 1°amines can be prepared by Gabriel phthalimide synthesis. Reason : Aryl halides undergo nucleophilic substitution with anion formed by phthalimide..</b>	<b>If both Reason and Assertion are correct and Reason is correct Explanation</b>	A	NA	45.30 %
07		<b>Assertion : Only a small amount of HCl is required in the reduction of nitro compounds with iron scrap and HCl in the presence of steam. Reason : FeCl<sub>2</sub> formed gets hydrolysed to release HCl during the reaction.</b>	<b>If both Reason and Assertion are incorrect</b>	D	NA	02 %
08		<b>Which test can tell the difference between p-chloroaniline and anilinium hydrochloride?</b>	<b>A. Sandmeyer Test B. Victor Meyer Test C. Silver Nitrate Test D. Sodium Bi Carbonate Solution</b>	D	NA	08.50 %
09		<b>Which of the following statements concerning methylamine is correct?</b>	<b>A. Methylamine is stronger base than NH<sub>3</sub> B. Methylamine is less basic than NH<sub>3</sub> C. Methylamine is slightly acidic D. Methylamine forms salts with alkali</b>	A		73.30 %
10		<b>Which of these substances has a lower melting point than amine?</b>	<b>A. Alcohol B. Ether C. Carboxylic Acid D. Phosphine</b>	D	<b>Absence of Inter Molecular H-Bonding</b>	48.90 %