

**CLASS – XII****SUBJECT : CHEMISTRY****MONTH : APRIL 2024**

<b>QUES NO</b>	<b>TYPE OF QUESTION ( REASONING / MCQ / MATRIX / GRID / OTHER )</b>	<b>QUESTION</b>	<b>OPTION PROVIDED</b>	<b>CORRECT OPTION</b>	<b>EXPLANATION</b>	<b>% OF STUDENTS ATTEMPTED CORRECTLY</b>
01	MCQ	According to Lewis concept, an acid is:	<ol style="list-style-type: none"><li>1. PROTON DONOR</li><li>2. PROTON ACCEPTOR</li><li>3. ELECTRON PAIR DONOR</li><li>4. ELECTRON PAIR ACCEPTOR</li></ol>	4	Lewis Acid are compounds which accept Electron Pair holding vacant orbital	48.50 %
02	MCQ	Radical Stabilization in free radical is defined by	<ol style="list-style-type: none"><li>1. C-C Bond Enthalpy</li><li>2. C-H Bond Dissociation</li><li>3. C-C Bond Dissociation</li><li>4. C-H Bond Enthalpy</li></ol>	2	Depends upon the Bond Dissociation Energy and stability of Radical	49.50 %
03	MCQ	Which of the following statements about maltose is incorrect?	<ol style="list-style-type: none"><li>1. It consists of two glucopyranose units</li><li>2. It is a disaccharide</li><li>3. Glycosidic bond between C1 of one unit and C4 of the other unit</li><li>4. It is a non-reducing sugar</li></ol>	4	Maltose is reducing Sugar Unit	53.40 %
04	R & A	Assertion : Atoms can combine either by transfer of valence of electrons from one atom to another or by sharing of valence electrons.	<ol style="list-style-type: none"><li>1. Both Correct</li><li>2. R correct A False</li><li>3. R False A Correct</li><li>4. R And A Both False</li></ol>	1	Both R and A Correct as per Duplet and Octet Rule	26.40 %

		<b>Reason : Sharing and transfer of valence electrons is done by atoms to have an octet in their valence shell.</b>				
05	R & A	<b>Assertion : Amongst the oxo acids of halogens, HOCl, HOBr and HOI , the HOI is the most acidic acid. Reason :The conjugate base stability is ClO&gt;BrO&gt;IO.</b>	<ol style="list-style-type: none"> <li>Both Correct</li> <li>R correct A False</li> <li>R False A Correct</li> <li>R And A Both False</li> </ol>	2	Depends upon the stability of Conjugate Base which is decided by Electronegativity.	71.10 %
06	R & A	<b>Assertion : Vitamin D cannot be stored in our body Reason : Vitamin D is fat soluble vitamin and is excreted from the body in urine</b>	<ol style="list-style-type: none"> <li>Both Correct</li> <li>R correct A False</li> <li>R False A Correct</li> <li>R And A Both False</li> </ol>	2	Vitamin D is Fat Soluble Vitamin Whereas Water Soluble are B & C	14.10 %
07	R & A	<b>Assertion:</b> In a reaction $Zn(s) + CuSO_4(aq) \rightarrow ZnSO_4(aq) + Cu(s)$ Zn is a reductant but itself get oxidized. <b>Reason:</b> In a redox reaction, oxidant is reduced by accepting electrons and reductant is oxidized by losing electrons.	<ol style="list-style-type: none"> <li>Both Correct</li> <li>R correct A False</li> <li>R False A Correct</li> <li>R And A Both False</li> </ol>	1	Depends upon Nature of Elements and their RP's	71.20 %
08	MCQ	Which of the following behaves both as a nucleophile and as an electrophile?	<ol style="list-style-type: none"> <li><math>CH_3C \equiv N</math></li> <li><math>CH_3OH</math></li> <li><math>CH_2 = CHCH_3</math></li> <li><math>CH_3NH_2</math></li> </ol>	1	Presence of Unsaturated System and Nitrogen Atom	58.70 %
09	MCQ	Which of the following statements about metabolism is false?	<ol style="list-style-type: none"> <li>It is due to this process that biomolecules do not have a turnover</li> <li>It involves the formation of biomolecules</li> <li>It involves the breaking down of biomolecules</li> <li>It involves various chemical reactions</li> </ol>	1	No Explanation	41.10 %

10	MCQ	<b>Calculate the Number of Oxygen Atoms in 50 g of CaCO<sub>3</sub></b>	<ol style="list-style-type: none"><li>1. <math>6.033 \times 10^{23}</math> atoms</li><li>2. <math>9.033 \times 10^{23}</math> atoms</li><li>3. <math>8.033 \times 10^{23}</math> atoms</li><li>4. <math>3.033 \times 10^{23}</math> atoms</li></ol>	2	<b>50 GMS of CaCO<sub>3</sub> mean 0.5 Mole and Each mole O<sub>3</sub> Oxygen Atoms are present therefore <math>0.5 \times 3 = 1.5</math> Moles</b>	<b>55.60 %</b>
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