

**CHEMISTRY PAPER-II Practice paper Sem-IV**

Question	Option 1	Option 2	Option 3	Option 4
Law of rational-indices mainly based on the position of:	Faces.	Edges.	Solid angles	Inter-facial angle
The possible number of Bravais lattice is ____.	Eleven	Twelve	Thirteen	Fourteen
How many elements of symmetry a cubic crystal possess?	8	22	23	21
A catalyst _____ the rate of chemical reaction but remains chemically unchanged at the end of reaction.	alters	only increases	only decreases	does not effect
The maltase enzyme catalyst converts _____.	maltose into glucose	maltose into sucrose	starch into maltose	glucose into ethyl alcohol
The cation is strongly acidic if $Z^2/r$ is between ____	0.01 and 0.04	0.004 and 0.01	0.16 and 0.22	0.22 and 0.42
pKa range for weakly acidic cation is between ____.	6 to 11.5	11.5 to 14	1 to 6	4 to 6
Periodic trend in the basicity is :	$C^{4-} > O^{2-} < Te^{2-}$	$C^{4-} > O^{2-} > Te^{2-}$	$C^{4-} > Te^{2-} > O^{2-}$	$C^{4-} < Te^{2-} > Sn^{2-}$
The dissolution of minerals in the earths crust & their subsequent availability to plant & animal life is due to small amount of _____	acidity of natural rain water	weathering of rocks	increased humidity	heat
The oxide which can also be used as anaesthetic is _____	SO <sub>2</sub>	N <sub>2</sub> O	NO	NO <sub>2</sub>
The evolution of nitrogen gas upon the addition of sodium nitrite in mineral acid solution identifies the presence of a(n)	Aromatic secondary amine	Aliphatic primary amine	Aromatic primary amine	Aliphatic tertiary amine
The most basic amine of the following is	Methylamine	Ammonia	Dimethylamine	Trimethylamine
The reagent that is used to prepare benzenediazonium chloride from aniline is	NaNO <sub>2</sub> + HCl	LiNH <sub>4</sub>	NH <sub>2</sub> NH <sub>2</sub> + KOH	NaOH
Action of conc. Nitric acid in presence of acetic anhydride on thiophene at low temperature gives.....	2-nitrothiophene	3-nitrothiophene	3-aminothiophene	2-acetylthiophene
In pyridine all the carbon atoms as well as nitrogen atom are.....hybridized.	sp <sup>3</sup>	sp	sp <sup>2</sup>	sp <sup>2</sup> d