Question	Option1	Option2	Option3	Option4	CorrectA ns
The percentage p-character in sp3 hybridization is	25%	50%	75%	66.67%	3
Process in which catalyst has a different phase to a reaction mixture, this process is known as	homogeneous catalysis	heterogeneous catalysis	hypergeneous catalyst	hypogenous catalyst	2
What is the formal charge present on central atom of NH_4^+ ?	1	2	-1	0	1
10 curies equal toBq	3.7*10 ⁹	3.7*10 ¹¹	3.7*10 ¹⁰	3.7*10 ⁸	2
is a metal chelating agent.	Dimercaprol	antimony potassium tartrate	Rontegen	RMgBr	1
In endothermic reaction, According to the Hammond Postulate, the structure of the transition state for this reaction would most resemble:	the reactant,	the product	it would be an equal hybrid of 1 and 2	the reaction intermediate	2
is related to metal ion catalysis.	Dimercaprol	Antimony potassium tartrate	Rontgen	RMgBr	4
Which one of the following inorganic compounds commonly used as an antioxidant in pharmaceutical formulations.	Molybdenum	Sodium bisulphate	Magnesium trisilicate	Calcium	2
Calamine is	Zinc carbonate	EDTA	Aluminum chloride	BF ₃	1
An astringent is	Promotes the secretion of sputum	Cause the contraction or shrinkage of tissues	Causes vomiting	Accelerates defecation	2

Look at the following diagram, which depicts the energy diagram for a chemical reaction. Which point on the diagram represents the point at which the transition state exists?	A	В	С	D	2
Which one of the following compound has planar geometry?	Zinc carbonate	EDTA	Aluminum chloride	BF ₃	4
Simethicone is used as_	Purgative	antiflatulant	Antimicrobial	astringent	2
Example of oxidative antimicrobial is	Zinc peroxide	Isapgol	Silver nitrate	Potassium tartarate	1
Mercuric chloride is	Oxidative Antimicrobial	Antiflatulant	Protein precipitant Antimicrobial	Astringent	3
Which one of the following radiation has greater ionizing power?	Beta	Gamma	Omega	Alpha	4
Charge on alpha particle is	+2e	-2e	+1e	0	1
Addition of HBr to 1,3-butadiene gives 1,2-addition product at rower temperature 1,4-addition product at higher temperature. Mention underlying principle.	Kinetic vs thermodynamic control	Reactivity vs selectivity	Hammond postulate	Microscopic reversibility	1

Molecular dipole moment of methane is	1	0	2	-1	2
The quantum number describes the energy of an electron.	Magnetic	Principle	Azimuthal	Spin	2
The azimuthal quantum number describes the of an electron.	Shell	Subshell	Orbital	Spin	2
Kinetic isotope effects that are greater than 1 are referred to as kinetic isotope effects.	Normal	reverse	Zero	Inverse	1
Drug solution decomposes <i>via</i> first-order kinetics with a rate constant, <i>k</i> , of 0.0077 days ⁻¹ . What is the half-life of the drug in solution?	0.033 days	33 days	70 days	90 days	4
The primary intracellular electrolyte, potassium produces a to maintain cell volume	high osmotic pressure	low osmotic pressure	excitability	no pressure	1
Which one of the following is used as antioxidant?	Selenium	Potassium	Hypophosphorus acid	Dil HCl	2