

Inorganic chemistry Applications in industry , Environment and Medicine (Section C: Medicine)

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
Choose the correct pair	A-DNA : right handed , B-DNA : right handed, Z-DNA : left handed	A-DNA : left handed , B-DNA : right handed, Z-DNA : left handed	A-DNA : right handed , B-DNA : left handed, Z-DNA : left handed	A-DNA : right handed , B-DNA : right handed, Z-DNA : right handed
Intercalation is favoured by	Planar heterocyclic ligands	Non planar heterocyclic ligands	Redox cleavage	Phosphodiester linkage
Chelating antidote should	Bind toxic metal strongly	Sufficiently lipophilic	Possess high LD50 value	All the above
Auranofin is used as	Anti arthritics	Anti cancer	Anti HIV	Antibacterial
Auranofin is administered orally because	It is lipophilic and monomolecular in solution	It is hydrophilic and polymeric in solution	Monomolecular	Hydrophilic
Myochrysin and solganal are the compounds of	bismuth	lithium	gold	platinum
Aurocyanide is used as	Anti arthritics	Anti cancer	anti inflammatory	Antibacterial
Oxidation states of gold complexes which are stable in biological environment	0, I, II	-I, 0, II	II, III, V	0, I, III
In biological systems Bismuth is present in oxidation state	I	II	III	V
Bismuth complexes are used in the treatment of	syphilis	dyspepsia	Gastrointestinal disorder	all of the above

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<i>H. Pylori</i> bacteria is associated with	Diarrhoea	Dyspepsia	Gastritis	Skin infection
Platinum complexes used to treat cancer are	anti cancer	carboplatin	Oxaliplatin	all of the above
Toxic effects of cis-platin includes	Nephrotoxicity	Anaemia	Anaemia	Diabetes
Oxidation state of platinum that shows anticancer activity are	I	II	II,V	I,II
Trans – DDP is toxic because	It is kinetically more labile	Chelate effect is possible	Non specific substitution reaction	None of the above
Lithium carbonate is used for treating	Nephrotoxicity	ulcer	Prophylaxis	Cancer
High concentration of serum lithium causes	Drowsiness	Loss of appetite	vomiting	Nausea
After administration highest accumulation of lithium is seen in	Brain	thyroid	liver	bone
Lithium metabolism cannot be studied directly because of	Short half life of isotopes	It is very mobile ion	Its widespread distribution in the body	all of the above
Technique used to study isotopes of lithium is	AAS	Dual channel AAS	NMR	Neutron activation Analysis