GROUP - (A) ELECTIVE PAPERS PAPER III. BIOINORGANIC AND SUPRA MOLECULAR CHEMISTRY

M.M. - 75

60 Hrs. (2 Hrs./Week)

Units	Topics Topics	salui de
1	Metal Storage Transport and Biomineralization	05 Hrs.
ablot a	Ferritin, transferrin and siderophores.	
II .	Calcium in Biology	06 Hrs.
(III) mullion! bir	Calcium in living cells, transport and regulation, molecular intramolecular processes, extracellular binding proteins.	aspects of
11 T	Metalloenzymes	20 Hrs.
	Zinc enzymes - carboxypeptidase and carbonic anhydrase. In catalase, peroxidase and cytochrome P-450. Copper enzymes dismutase. Molybdenum oxatransferase enzymes - xanthine oxidase vitamin B_{12} .	- superoxide
IV	Metal-Nucleic Acid Interactions	06 Hrs.
	Metal ions and metal complexes interactions. Metal complex acids.	es - nucleic
	Metals in Medicine	05 Hrs.
	Metal deficiency and disease, toxic effects of metals, metals used the and chemotherapy with particular reference to anticancer drugs	STATE OF THE PROPERTY.
V Z	Supramolecular Chemistry	18 Hrs.
	Concepts and language.	
	(a) Molecular recognition: Molecular receptors for different molecules arisonic substrates, design and synthesis of molecules and multiple recognition.	The state of the s
	(b) Supramolecular reactivity and catalysis.	
	(c) Transport processes and carrier design.	
	(d) Supramolecular devices. Supramolecular photo supramolecular electronic, ionic and switching devices.	chemistry,
	Some example of self-assembly in supramolecular chemistry.	