Department of Biochemical Engineering and Biotechnology

BEL 101: Biochemistry Minor II (I semester 2013-2014)

Max. Marks 15 Max. Time I hr.

Note: Answer Part A and Part B in separate answer books

PartA

	200	536	33	
E	[2+1]	EL CE		3
(1)(a) A person is interested in producing a molecule with enzymatic activity to cleave viral specific protein. Based on your understanding of enzymology cleave viral specific protein, said on your understanding of enzymology and immunology explain what strategy should be used to obtain such an	Based on a plot between velocity of an enzyme caralyzed reaction and [2+1] substrate concentration how will you differentiate between allosteric enzyme and enzyme following Michaelis-Menten kinetics? What is the significance	What factors act to preserve the asymmetry of biological membrane [1] with respect to the distribution of phospholipids?	(b) Synthetic lipid bilayers containing two newly discovered transported across antibiotics, X and Y, were prepared. If one is being transported across the membrane by carrier mediated transport and the other by forming channel, depict the results based on the ionic conductance across these	bilayers as a function of temperature. Propose a mecranism for of these transport antibioric, briefly explaining your answer.
(10)	3	(a) 20	e)	

Part B

Ble + 2 ATPEZED + 2 NADT