## Shahjalal University of Science and Technology

## Department of Biochemistry and Molecular Biology

## BMB 224 Enzymollogy II Midterm - II

## Full marks 9.0 Time 1 hr

1.	What is free energy? Define the term $\Delta G^{\theta}$ , Prosthetic group, Cofactor?	1.5
2.	Explain the following statements	3.0
I.	A favorable equilibrium does not mean that the substrate to product conversion will occudetectable rate	ur at a
II.	ATP is a biological currency and high energy molecule	
III.	Lysozyme is a bactericidal agent	
3. How	enzymes maintain high degree of specificity?	1.0
4. Write down the name of the enzymes and the reaction they catalyzed where FAD, NAD and PLP act as		
coenzyi		1.5
5. The mechanism of action of Lysosome is mediated by covalent catalysis and general acid base		
catalysi	s, describe?	2.0