# SECTION B: LONG QUESTIONS (Total marks 90) Please dots: Complete this section in your survey book. CANDIDATES ARE REQUESTED, IN THEIR OWN INTERESTS, TO WRITE LEGIBLY

I. This problem explores the consequences of coupling ATP hydrolysis under physiological conditions to a thermodynamically unfavourable blochemical reaction Because we want to explore these consequences in stages, we shall consider the hypothetical transformation, $X \to Y$ , a reaction for which $\Delta G^* = 20$ kJ/mol.	
(a) What is the ratio [Y]/[X] at equilibrium?	(2)
(b) Suppose X and Y participate in a sequence of reactions during which ATP is hydrolysed to ADF and Pi. The overall reaction is: $X + ATP + H_2O \rightarrow Y + ADF + Pi$	(2)
Calculate [Y]/[X] for this reaction at equilibrium. Assume for the purposes of this calculation that the concentrations of ATP, ADP, and Pi are all I M when the reaction equilibrium.	ione de
(c) We know that [ATP], [ADP], and [Pi] are not 1 M under physiological condition Calculate the ratio [Y]-[X] for the ATP-coupled reaction when the values of [ATP], [ADP], and [Pi] are 8.05 mM, 0.93 mM, and 8.05 mM, respectively.	e. (5)
2. Name any <u>three</u> enzymes that participate in glycolysis.	(29)
3. Name <u>six</u> types of metabolic reactions.	(%)
<ol> <li>Write (not draw) an equation to represent the overall reaction of TCA Cycle, Incl. all quantities your answer.</li> </ol>	(4)
5. Why do we need oxygen to break down glucose completely by nerobic respiration	7 (2)
6. How does the electron transport chain convert NADH and FADH; into ATP?	(5)
7. If enzymes do not alter thermodynamics/binenergetics, why are they so important the control of metabolism?	in (10)
S. Describe the biochemistry involved when cholors causes discribees.	(100)

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