

## **CHEMISTRY**

NAME: \_ SOLONS
TOPIC: \_ Equilibrain text 2018

Please indicate your answer with a cross (X) within the box.

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		2	A		В		С		D		
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ATAR Chemistry Answer Booklet

Test: Equ		14 to seemle			.d
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N20+ = 2NO2 BN = +58KJ Endstremie -> dater brown ect's added to the system - imposed change NO rulared therefore Initially Collinion theory, daher favour side with leat terere restron lighter brown log not go colonlar a Noz Still thee notto

<i>5.</i> «.		i. If the pressure of the system is increased, then the equilibrium will shift in such a direction so as to produce fewer particles and thus reduced the pressure. In this case, the equilibrium position will SHIFT to the RIGHT which has less gas particles. The partial pressure (concentration) of the SO <sub>3</sub> will increase, and the partial pressures of the SO <sub>2</sub> and O <sub>2</sub> will decrease.								
		react rise in so the chang	If the temperature of the system is increased, initially the kinetic energy of the products and reactants will increase as will the forward and reverse ions. According to LCP the reaction will shift in such a way to partially offset the n temperature. In this case, the reaction is exothermic in the forward direction, e position of equilibrium will SHIFT to the LEFT to counteract the imposed ge. The partial pressure of the SO <sub>3</sub> will decrease, and the partial pressures tentrations) of the SO <sub>2</sub> and O <sub>2</sub> will increase.							
		left ha pressu	If the volume of the system is increased, then the pressures of all gases and will drop. According to LCP the equilibrium will shift in such a way so as to uce more particles and increase the pressure. There are more particles on the and side so the position of equilibrium will SHIFT to the LEFT. The partial ure (concentration) of the SO <sub>3</sub> will decrease, and the partial pressures of the nd O <sub>2</sub> will increase.							
Ь.		iv. Adding a catalyst will have no effect whatsoever on the position of equilibrium or the concentration of all the substances.								
		i. ii. iii. iv.	No change K decreases No change No change							
6.	a.	i. II. III.	Decrease pressure → DECREASE YIELD  Decrease temperature → INCREASE YIELD  Catalyst → NO EFFECT ON YIELD 1 each							
	b.	i. ii. iii.	Increase pressure Increase temperature Removing Catalyst  INCREASE RATE OF ATTAINMENT DECREASE RATE OF ATTAINMENT							
٦.	a,	0,	my poct3							
	<b>b</b> .	Equiliberin - concertation of product & reactants Constat								
	C.									
	d.									
	е.	Equilibrium shifted LEFT to produce more POCK3 restat								
	f.	Graph with not change.								
		If	System at quitherin cotalyst has no ellect.							
			talyst only reduce time to got to equilibrium.							

