Chemguide - questions

THE CONTACT PROCESS

Ι.	In the Contact Process, write equations for the following stages:
	a) the formation of sulphur dioxide;
	b) the conversion of sulphur dioxide into sulphur trioxide;
	c) the conversion of sulphur trioxide into concentrated sulphuric acid.
2.	State the conditions for the conversion of sulphur dioxide to sulphur trioxide:
	a) proportion of sulphur dioxide to oxygen in the reaction mixture;
	b) temperature;
	c) pressure;
	d) catalyst.
3.	The conversion of sulphur dioxide to sulphur trioxide is reversible, with the forward reaction forming sulphur trioxide being exothermic.
	There are a number of ways that the choice of conditions affects the process:
	 their effect on the position of equilibrium; their effect on the rate of the reaction; their effect on the economics of the process.
	By considering each of these (where relevant), explain the choice of the conditions you gave in question 2 with respect to
	a) the proportion of sulphur dioxide to oxygen;
	a) the choice of temperature;
	b) the choice of pressure;
	c) the use of the catalyst.