CH3041 Tutorial 7 Toxicology, Nuclear and Energy Chemistry

Name:

1.	Describe the toxicity characteristics and give an example of each of the following toxicants:
	chronic systemic poison
	acute local poison
	xenobiotic substance
	carcinogenic substance
2.	Explain the following toxicological terms LD_{50} , EC_{50} and banded toxicity data. How are these different methods used to assess the risk of chemicals to exposed individuals.

3.	Not all nuclides are kinetically stable. Give 2 examples of nuclides that are radioactive and 1 example of a stable nuclide. For the radionuclides you have chosen show the method of decay and explain why the nuclide is not stable.
• Pro	anol and Biodiesel are alternative fuels that may be used in the automobile industry. vide an illustrative molecular formulae for each of these fuels and the fossil fuels petrol and diesel. plain the advantages/disadvantages of using ethanol and biodiesel when compared with fossil is.