2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Chemistry

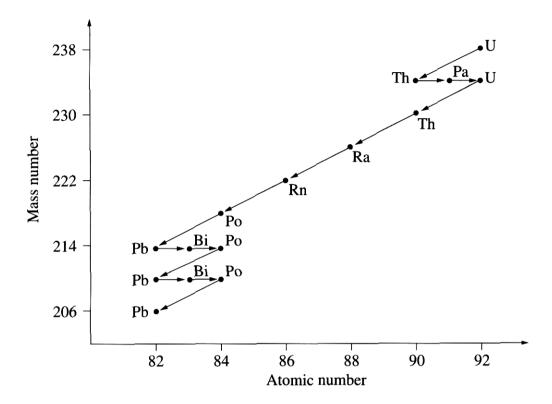
Section I – Part B (continued)

Question 19 (5 marks)		Marks
(a)	Describe the conditions under which a nucleus is unstable. The conditions when and those is low temperfuse, and unstable structure. Limboration for programs of the conditions when a service is the conditions when a service is unstable.	2

Question 19 continues on page 14

Question 19 (continued)

(b) The following is a flow diagram showing the sequence of products released during the decay of uranium.



Use examples from the flow diagram to describe processes by which an unstable isotope undergoes radioactive decay.

We can see when the atomic number in sexse, the mass number is also increase Except between the atomic number between 82-84 and 90-92.

When the atmic number is at 92, it's stable.

End of Question 19