

## Chemistry

## Section I – Part B (continued)

Marks

## Question 19 (5 marks)

- (a) Describe the conditions under which a nucleus is unstable. 2

<sup>Nucleus</sup>  
~~Nucleus~~ is unstable when there are too many neutrons to the number of protons; or too many protons for number of neutrons; or too many protons and neutrons which causes the nucleus to be unstable and becomes a radioactive element (release  $p^+$  or  $n$  to become stable again)

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