

2002 HIGHER SCHOOL CERTIFICATE EXAMINATION
Biology

Section I – Part B (continued)

Marks

Question 25 (4 marks)

- (a) Define the concept of *punctuated equilibrium* in evolution.

1

That ^{new} species occur through surviving species under evolutionary pressures such as chemical & physical changes in the environment.

- (b) How does punctuated equilibrium differ from the process proposed by Darwin?

3

Darwin's process of natural selection proposed that evolution occurred through the process of natural selection ^{of a species} over thousands or millions of years. ^{Darwin's} ~~this process~~ proposal took much longer, compared to the ~~theory~~ ^{concept} of punctuated equilibrium, ~~which~~ ^{a species} where animals moved ~~from~~ across into different areas & one group may have survived physiological or chemical pressures in an area & the rest died out.