## 2002 HIGHER SCHOOL CERTIFICATE EXAMINATION Biology

Section I – Part B (continued)

## Question 25 (4 marks)

Marks

Define the concept of *punctuated equilibrium* in evolution. (a) Punctuated equilibrium is the concept that there were periods of rapid adutionany change, followed by periods of complete stability & little change in wolution. How does punctuated equilibrium differ from the process proposed by Darwin? 3 (b) Parinin propossed that evolution was a gradual process, that slowly took place over millions of years. Dorwins theory relies on evidence from transistional ferms that suggest the development of one group af organisms from another. Conversely, punctuated equilibrium suggests changes were repid, when conditions changed, species that were not adapted became entiril- & new species developed in there place

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