Mark schemes

Q1.

(a) (the percentage of) nitrogen increased 1 (because of intense) volcanic activity (the percentage of) carbon dioxide decreased (b) (because) carbon dioxide dissolved in oceans (because of) formation of carbonate (precipitates / sediments) do not accept references to photosynthesis 1 (the percentage of) carbon dioxide decreased (the percentage of) oxygen increased 1 the increase and decrease (in percentage) occur at the same / similar rate allow the changes (in percentage) are the same / similar in the same period of time (d) photosynthesis allow a description of photosynthesis 1 plankton (died) (e) allow tiny marine organisms (died) 1 and (the organisms) were covered by sediments

allow and (the organisms) were buried

and subjected to high temperature

high pressure (over millions of years)

allow and (the organisms) were in anaerobic conditions

1

[10]