**Question 36 (12 marks)**

Evolution of a species can occur through either genetic drift or natural selection.

The evolution of hominids probably occurred through the process of natural selection as the environment around them changed.

(a) Describe mechanisms underpinning the theory of natural selection that produce changes in a gene pool, leading to speciation. (5 marks)

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(b) What is random genetic drift? (2 marks)

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(c) Explain, using the most likely scenario (random genetic drift or natural selection), how sickle-cell anaemia became common in Nigeria. (5 marks)

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