

- | | | | |
|-----|-------|---|---------------------|
| 2.4 | 2.4.1 | <ul style="list-style-type: none"> - To prevent the flowers in Population 1✓ from self-pollination✓ OR - To ensure cross-pollination✓ between the flowers of Population 1 and Population 2✓ | (2) |
| | 2.4.2 | - The seeds produced did not germinate✓ | (1) |
| | 2.4.3 | <ul style="list-style-type: none"> - Type of soil✓ - Amount of water✓ - Temperature✓ - pH✓ - Exposure to sunlight✓ - Depth of sowing in soil✓ | |
| | | (Mark first TWO only) | (Any 2) (2) |
| | 2.4.4 | Repeat the investigation✓
Increase the sample size ✓/number of seeds/number of plots/
number of plants
(Mark first ONE only) | (Any 1) (1)
(6) |
| 2.5 | | <ul style="list-style-type: none"> - A population of a particular species may split into two population✓ - because of a geographic barrier✓ - There will be no gene flow between the two separated populations✓ - Due to the difference in environmental conditions✓ - Natural selection✓ will occur independently - Making them genotypically✓ and - Phenotypically✓ different over a period of time. | |
| | | Even if the two populations mixed at a later stage, they will
not be able to interbreed again✓ resulting in a new species | (Any 6) (6)
[40] |

- 3.4 3.4.1 *A. anamensis* ✓ and *A. afarensis* ✓
 (Mark first TWO only) (2)
- 3.4.2 (4,5mya – 3mya) ✓ = 1,5 ✓ mya ✓ (3)
- 3.4.3 The cranium increased in size ✓ so it could accommodate a larger
 brain ✓ (2)
- 3.4.4 Smaller teeth ✓ / canines in *Homo* species, can chew food that was
 cooked ✓ / made soft using fire

OR

Larger teeth/canines are not necessary ✓ because the food is
softer ✓ because of cooking with fire.

(2)
(9)
[40]

TOTAL SECTION B: 80

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