

**SECTION C****QUESTION 4****The development of a new species**

- If a population splits into two populations ✓.
- There is now no gene flow between the two populations. ✓
- Since each population may be exposed to different environmental conditions ✓.
- Natural selection occurs independently in each of the two populations ✓
- such that the individuals of the two populations become very different from each other ✓
- genotypically and phenotypically ✓.
- Even if the two populations were to mix again ✓.
- they will not be able to reproduce with each other ✓, thus becoming different species (any 5) (5)

**The development of bipedalism**

- The backward position of the foramen magnum on the skull ✓.
- the narrow pelvis ✓
- and the less-curved spine ✓
- indicates that the ape-like beings were quadripedal ✓ (any 3)
- The forward position of the foramen magnum on the skull ✓.
- the wider pelvis ✓
- and the curved spine ✓
- indicates that modern humans are bipedal ✓ (any 3) (6)

**Change in the diet from raw food to cooked food**

- The large teeth, especially the canines ✓
  - as well as the large and long jaws ✓
  - which makes the skull prognathous ✓
  - as well as cranial/brow ridges associated with large muscles that operate the jaws ✓
  - indicate that the ape-like beings ate raw food that required a great amount of processing ✓/tearing, biting and chewing. (any 3)
  - The smaller teeth, including the canines ✓
  - as well as the smaller jaw size ✓
  - which makes the skull less prognathous ✓
  - as well as the absence of cranial/brow ridges due to the presence of smaller muscles for chewing ✓
  - indicate that modern humans rely on a diet of cooked food that does not require the same amount of processing ✓/tearing, biting and chewing. (any 3) (6)
- Content: (17)  
Synthesis: (3)  
**(20)**

# 2014 Exemplar Grade 12

**David Baud**



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