

SECTION A**QUESTION 1**

- 1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.10) in the ANSWER BOOK, for example 1.1.11 D.

1.1.1 Which ONE of the following serves as evidence of cultural evolution in early *Homo* species?

- A Drawings and carvings on rocks
- B Animal remains close to a *Homo* skeleton
- C Male and female skeletons in the same area
- D More than one *Homo* skeleton in an area

1.1.2 A father has blood type A. He has 4 children with the following blood types:

- Child 1 – A
- Child 2 – O
- Child 3 – AB
- Child 4 – B

What is the blood type of the mother of the above children?

- A A
- B B
- C O
- D AB

1.1.3 New alleles arise in a sexually reproducing population through ...

- A mutations in DNA sequences prior to meiosis.
- B random fertilisation of gametes during reproduction.
- C random assortment of homologous chromosomes during meiosis.
- D exchange of chromatid segments between homologous chromosomes during meiosis.

1.1.4 A tall pea plant was crossed repeatedly with a short pea plant. In each of these crosses, they produced only tall offspring. It is reasonable to conclude that the ...

- A tall pea plant involved in the cross is homozygous.
- B tall pea plant involved in the cross is heterozygous.
- C offspring are all heterozygous for height.
- D short pea plant involved in the cross is heterozygous.

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Tao Wei



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