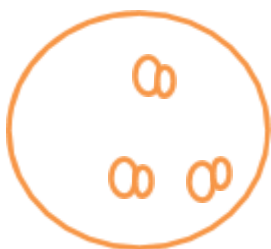


CCT WEEKLY PRACTICE

THE WORLD AROUND

Water decomposes into hydrogen and oxygen when an electric current is passed through it. Hydrogen and oxygen, on the other hand, cannot be decomposed into simpler substance. They are, therefore, the elementary or simplest chemical substances which contain only one kind of atom-elements. Elements combine to form chemical compounds. In a compound, atoms in a fixed proportion to form a molecule. In a mixture, the individual components are simply put together and they can be separated from each other easily.

1. Look at the diagrams in the boxes below and match with their correct descriptions



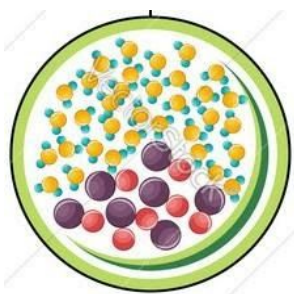
(a)

(i) Mixture



(b)

(ii) Molecule



(c)

(iii) Pure Element

- (i) a-(iii), b-(ii) and (c)-(i)
- (ii) a-(ii), b-(iii) and (c)-(i)
- (iii) a-(i), b-(ii) and (c)-(iii)

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2. Which of the above has only one type of atoms?

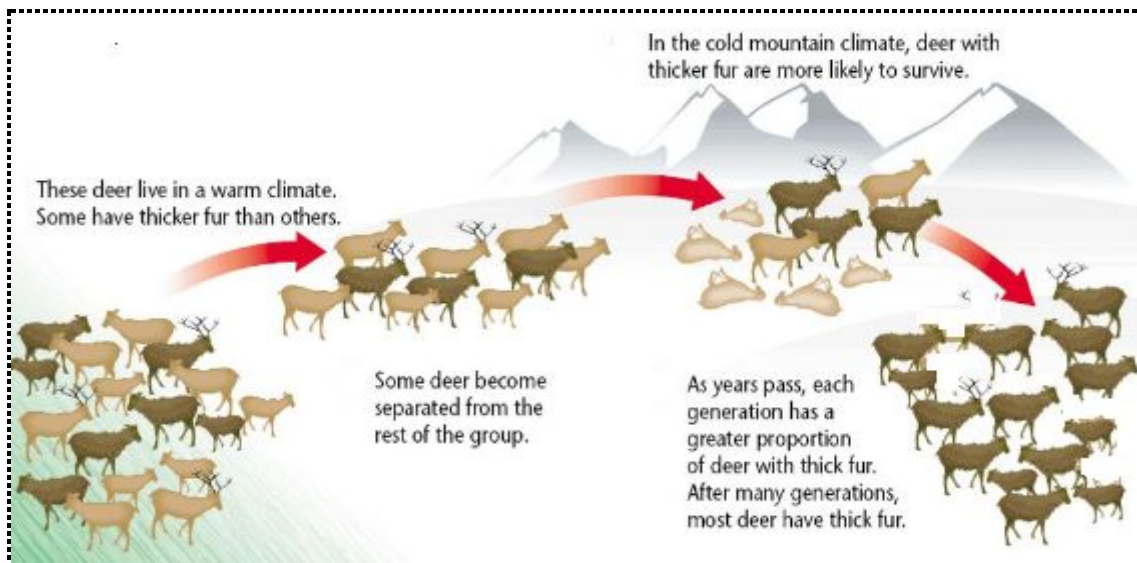
- (i) image (a)
- (ii) image (b)
- (iii) image (c)

3. Which of the following is not a compound?

- (i) CaCl_2
- (ii) HCl
- (iii) H
- (iv) HI

CCT WEEKLY PRACTICE

THE EVOLVING WORLD



4. With reference to the above-mentioned figure, give your views on the statement 'Adaptation is related to natural selection'.

5. Which of the following is incorrect?

- (i) Natural selection is a slow evolutionary process.
- (ii) Random mutation are the prime cause of new traits.
- (iii) Natural selection and adaptation work as opposite forces.

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Answer Key:-

1. Option (ii)
2. Option (ii)
3. Option (iii)

4. Development of thicker coat helps the organism to adapt to the colder environment shows that adaptation is related to natural selection.
5. Option (iii)