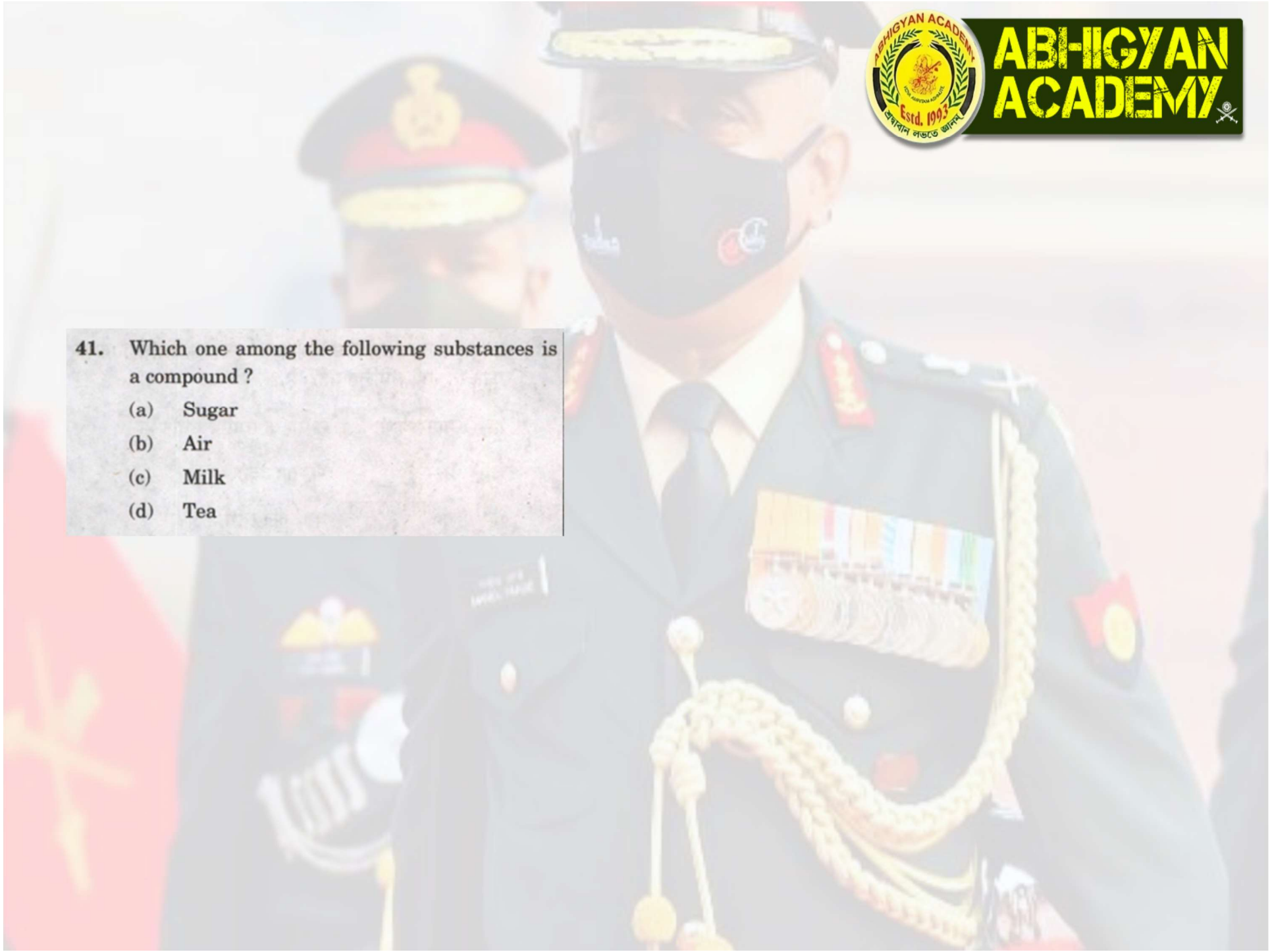
ELEMENTS, COUMPOUNDS, MOLECULAR FORMULA, MIXTURES PYQs (2014-2024)

26. Match List–I with List–II and select the correct answer using the code given below the Lists :

List–I (Element)	*List–II (Property/Use)*
A. Mg	1. Gives red colour to flame
B. Ca	2. Sulphate compound used in medicine to examine the alimentary canal of a patient
C. Sr	3. Traps the energy of sunlight in photosynthesis
D. Ba	4. Control of muscle contraction

Code :

	A	B	C	D
(a)	2	4	1	3
(b)	2	1	4	3
(c)	3	4	1	2
(d)	3	1	4	2



41. Which one among the following substances is a compound ?

(a) Sugar

(b) Air

(c) Milk

(d) Tea

96. Which one of the following statements is ***not*** correct ?

(a) Elements are defined by the number of protons they possess.

(b) Isobars are atoms having the same atomic number but different mass number.

(c) The mass number of an atom is equal to the number of nucleons in its nucleus.

(d) Valency is the combining capacity of an atom.

. Which one of the following is ***not*** a characteristic of a compound?

(a) Composition is variable.

(b) All particles of compound are of only one type.

(c) Particles of compound have two or more elements.

(d) Its constituents cannot be separated by simple physical methods.

95. Consider the following statements about mixture :

1. A substance can be separated into other kinds of matter by any physical process.
2. Dissolved sodium chloride can be separated from water by the physical process of evaporation.

Which of the statements given above is/are correct ?

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

Which one of the following elements does ***not*** form solid hydrogen carbonate?

(a) Sodium

(b) Potassium

(c) Caesium

(d) Lithium

Which one of the following is the most characteristic property of an element?

(a) Density

(b) Boiling point

(c) Mass number

(d) Atomic number

6. Match List–I with List–II and select the correct answer using the code given below the Lists :

List–I (Compound)	*List–II (Use)*
A. Boric acid	1. Antiseptic
B. Citric acid	2. Food preservative
C. Magnesium hydroxide	3. Antacid
D. Acetic acid	4. Pickle

Code :

	A	B	C	D
(a)	1	2	3	4
(b)	1	3	2	4
(c)	4	3	2	1
(d)	4	2	3	1

When hard water is evaporated completely, the white solid remains in the container. It may be due to the presence of

1. Carbonates of Ca and Mg
2. Sulphates of Ca and Mg
3. Chlorides of Ca and Mg

Select the correct answer using the code given below :

(a) 1 and 2 only

(b) 1, 2 and 3

(c) 3 only

(d) 1 and 3 only

The chemical properties of an element depend upon

(a) the number of isotopes of the element

(b) the mass number of the element

(c) the total number of neutrons in the element

(d) the number of electrons in the outermost shell of the element

An emulsion consists of

(a) one liquid and one solid

(b) one liquid and one gas

(c) two liquids

(d) two solids

2. The elements of which of the following pairs are isobars?

(a) $^{1}_{1}H$ and $^{3}_{1}H$

(b) $^{1}_{1}H$ and $^{2}_{1}H$

(c) $^{12}_{6}C$ and $^{14}_{6}C$

(d) $^{40}_{18}Ar$ and $^{40}_{20}Ca$

20. Mahatma Gandhi's Dandi March, a great event in Indian freedom struggle, was associated with

(a) iron

(b) sodium chloride

(c) sulphur

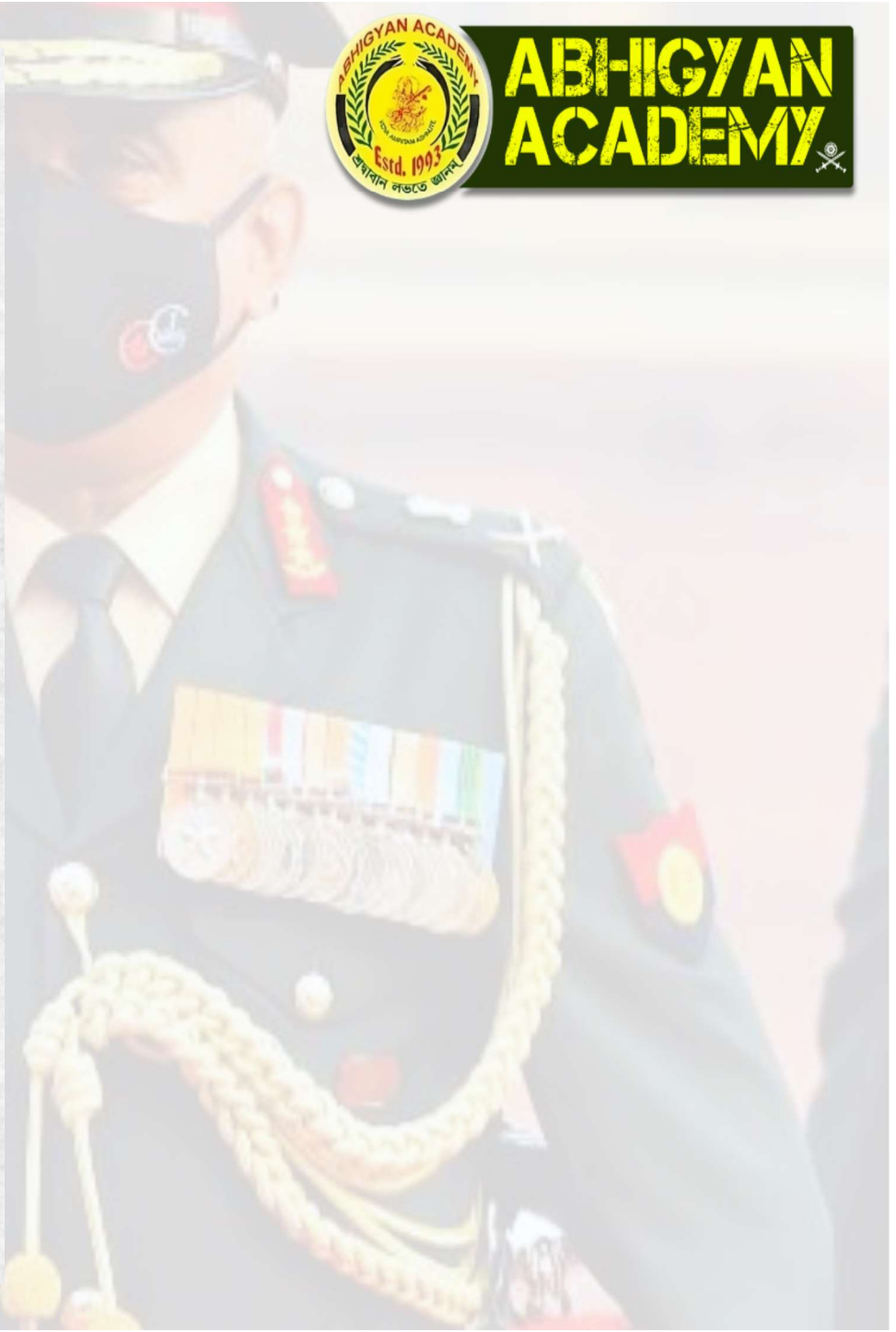
(d) aluminium

21. Match List–I with List–II and select the correct answer using the code given below the Lists :

List–I (Name)	*List–II (Formula)*
A. Bleaching powder	1. $NaHCO_3$
B. Baking soda	2. $Na_2CO_3 \cdot 10H_2O$
C. Washing soda	3. $Ca(OH)_2$
D. Slaked lime	4. $CaOCl_2$

Code :

	A	B	C	D
(a)	4	1	2	3
(b)	4	2	1	3
(c)	3	2	1	4
(d)	3	1	2	4

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