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NCERT Class X Science Class: Chapter – 5. Periodic Classification of Elements – Part-1

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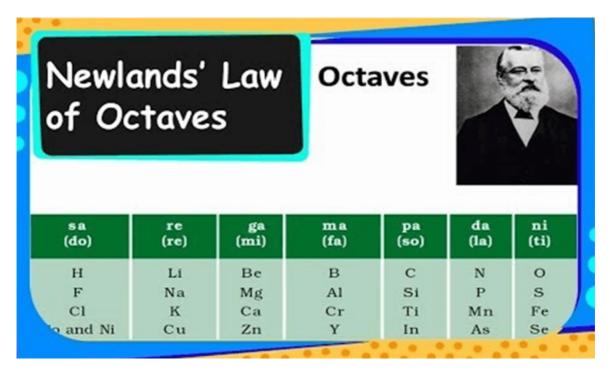
Multiple Choice Questions

Question 1:

Up to which element, the Law of Octaves was found to be applicable

- 1. Oxygen
- 2. Calcium
- 3. Cobalt
- 4. Potassium

Answer: B

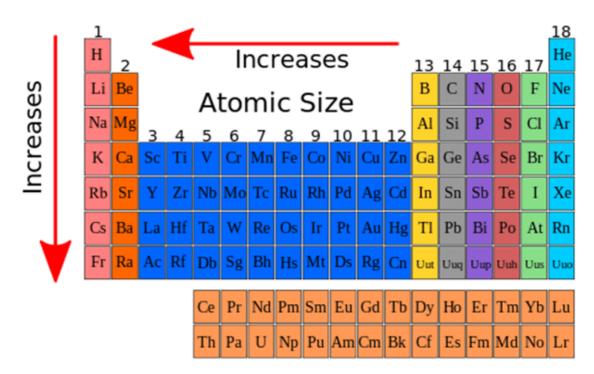


Question 2:

According to Mendeleev's Periodic Law, the elements were arranged in the periodic table in the order of

- 1. Increasing atomic number
- 2. Decreasing atomic number
- 3. Increasing atomic masses
- 4. Decreasing atomic masses

Answer: C



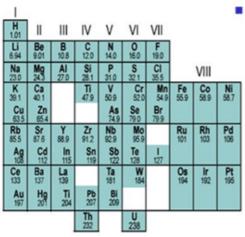
Question 3:

In Mendeleev's Periodic Table, gaps were left for the elements to be discovered later. Which of the following elements found a place in the periodic table later

- 1. Germanium
- 2. Chlorine
- 3. Oxygen
- 4. Silicon

Answer: A

Mendeleev's Predictions



- He arranged 63 known elements
 - Predicted
 - three elements had yet to be discovered
 - what their properties would be
 - 16 years later a published chemist discovered the missing elements.
 - scandium, gallium, and germanium

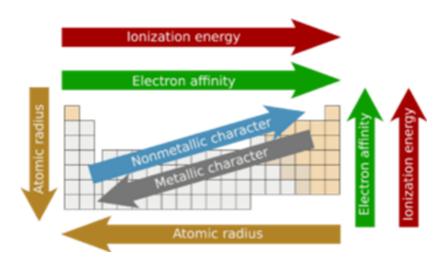
Question 4:

Which of the following statement (s) about the Modern Periodic Table are incorrect

- 1. The elements in the Modern Periodic Table are arranged on the basis of their decreasing atomic number
- 2. The elements in the Modern Periodic Table are arranged on the basis of their increasing atomic masses
- 3. Isotopes are placed in adjoining group (s) in the Periodic Table
- 4. The elements in the Modern Periodic Table are arranged on the basis of their increasing atomic number
- 5. (i) only

- 6. (i), (ii) and (iii)
- 7. (i), (ii) and (iv)
- 8. (iv) only

Answer: B



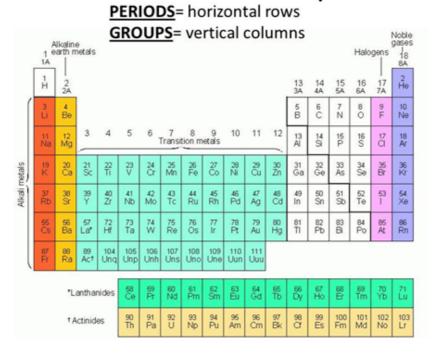
Question 5:

Which of the following statements about the Modern Periodic Table is correct:

- 1. It has 18 horizontal rows known as Periods
- 2. It has 7 vertical columns known as Periods
- 3. It has 18 vertical columns known as Groups
- 4. It has 7 horizontal rows known as Groups

Answer: C

Periodic Table with Group Names



Question 6:

Which of the given elements A, B, C, D and E with atomic number 2, 3,7, 10 and 30 respectively belong to the same period?

- 1. A, B, C
- 2. B, C, D
- 3. A, D, E
- 4. B, D, E

Answer: B