

Science Worksheet Class X

Periodic Classification of Elements

1. Newlands relation is called
 - (a) Musical Law
 - (b) Law of Octaves
 - (c) Periodic Law
 - (d) Atomic Mass Law
2. Upto which element, the Law of Octaves was found applicable?
 - (a) Oxygen
 - (b) Calcium
 - (c) Cobalt
 - (d) Potassium
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?
 - (a) Chlorine
 - (b) Silicon
 - (c) Oxygen
 - (d) Germanium
4. At the time of Mendeleev, the number of elements known was
 - (a) 63
 - (b) 65
 - (c) 62
 - (d) 64
5. The properties of eka-aluminium predicted by Mendeleev are the same as the properties of later discovered element:
 - (a) Scandium
 - (b) Germanium
 - (c) Gallium
 - (d) Aluminium
6. An atom of an element has the electronic configuration 2,8,2. To which group does it belong?
 - (a) 4th group
 - (b) 6th group
 - (c) 3rd group
 - (d) 2nd group

7. The arrangement of elements in the Modern Periodic Table is based on their

- (a) increasing atomic mass in the period
- (b) increasing atomic number in the horizontal rows
- (c) increasing atomic number in the vertical columns
- (d) increasing atomic mass in the group

8. Where would you locate the element with electronic configuration 2, 8 in the Modern Periodic Table?

- (a) Group 8
- (b) Group 2
- (c) Group 18
- (d) Group 10

9. An element X has mass number 40 and contains 21 neutrons in its atom. To which group of the Periodic Table does it belong?

- (a) Group 1
- (b) Group 4
- (c) Group 2
- (d) Group 3

10. Which of these belong to the same period?

Element	A	B	C
Atomic Number	2	10	5

- (a) A, B
- (b) B, C
- (c) C, A
- (d) A, B and C

11. Carbon belongs to the second period and Group 14. Silicon belongs to the third period and Group 14. If atomic number of carbon is 6, the atomic number of silicon is

- (a) 7
- (b) 14
- (c) 24
- (d) 16

12. What is the atomic number of element of period 3 and group 17 of the Periodic Table?

- (a) 10
- (b) 4
- (c) 17
- (d) 21

13. The concept of grouping elements into triads was given by _____.

14. Mendeleev's basis for the Periodic Table is _____.
15. The basis for Modern Periodic Table is _____.
16. Metallic character _____ down the group.
17. Atomic size _____ along the period.
18. Isotopes belong to the same _____ in the Periodic Table.
19. Halogens belong to group _____ of the Periodic Table.
20. An element having electronic configuration (2, 8, 2) belongs to the _____ group.
21. Atoms of different elements with the same number of occupied shells are placed in the same _____.
22. Non-metals are located on the _____ side of the Periodic Table.
23. Law of Octaves worked well with lighter elements only. Is it true or false.
24. Among chemical properties, Mendeléeu concentrated on the compounds formed by elements with _____ and hydrogen.
25. The maximum number of electrons that can be accommodated in a shell is _____.