

CBSE Class 10 Science MCQs Chapter 5

period	group 1*	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
1	1 H	2																18 He	
2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne	
3	11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	
5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	
6	55 Cs	56 Ba	57 La	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 Tl	82 Pb	83 Bi	84 Po	85 At	86 Rn	
7	87 Fr	88 Ra	89 Ac	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 Fl	115 Mc	116 Lv	117 Ts	118 Og	
lanthanoid series 6			58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu			
actinoid series 7			90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr			

1. How many periods and groups are present in the periodic table?

- a) 7 periods and 18 groups
- b) 8 periods and 7 groups
- c) 7 periods and 7 groups
- d) 8 periods and 8 groups

Answer: (a) 7 periods and 18 groups

2. Which of the following forms the basis of the modern periodic table?

- a) Atomic mass
- b) Atomic number
- c) Number of nucleons
- d) All of these

Answer: (b) Atomic number

3. What happens to the electropositive character of elements on moving from left to right in a periodic table?

- a) Increase
- b) Decreases
- c) First increases than decreases
- d) First decreases than increases

Answer: (b) Decreases

4. The electronic configuration of an element M is 2, 8, 4. In modern periodic table, the element M is placed in

- a) 4th group
- b) 2nd group
- c) 14th group
- d) 18th group

Answer: (c) 14th group

5. Which of the following is the correct order of the atomic radii of the elements oxygen, fluorine and nitrogen?

- a) $O < F < N$
- b) $N < F < O$
- c) $O < N < F$
- d) $F < O < N$

Answer: (d) $F < O < N$

6. What is the other name for group 18th elements?

- a) Noble gases
- b) Alkali metals
- c) Alkali earth metals
- d) Halogens

Answer: (a) Noble gases

7. Which of the following is the most reactive element of the group 17?

- a) Oxygen
- b) Sodium
- c) Fluorine
- d) Magnesium

Answer: (c) Fluorine

8. Element X forms a chloride with the formula XCl_2 , which is a solid with a high melting point. X would most likely be in the same group of the Periodic Table as

- a) Na
- b) Mg
- c) Al
- d) Si

Answer: (b) Mg

9. Which group elements are called transition metals?

- a) Group number 1 to 2
- b) Group number 13 to 18
- c) Group number 3 to 12
- d) Group number 1 to 8

Answer: (c) Group number 3 to 12

10. Which of the following elements has 2 shells and both are completely filled?

- a) Helium
- b) Neon

c) Calcium

d) Boron

Answer: (b) Neon

11. Which of the following is the atomic number of an element that forms basic oxide?

a) 18

b) 17

c) 19

d) 15

Answer: (c) 19

12. The elements A, B and C belong to group 2, 14 and 16 respectively, of the periodic table. Which of the two elements will form covalent bonds?

a) A and B

b) B and C

c) C and A

d) None of these

Answer: (b) B and C

13. Which of the following does not decrease while moving down the group of the periodic table?

a) Atomic radius

b) Metallic character

c) Number of shells in the atom

d) Valence electrons

Answer: (d) Valence electrons

14. An element X belongs to the 3rd period and 1st group of the periodic table.
What is the number of valence electrons in its atom?

- a) 1
- b) 3
- c) 6
- d) 8

Answer: (a) 1

15. An element M is in group 13th of the periodic table, the formula for its oxide is

- a) MO
- b) M₂O₃
- c) M₃O₂
- d) None of these

Answer: (b) M₂O₃