Exercise-1

✍ **Marked Questions may have for Revision Questions.**

ONLY ONE OPTION CORRECT TYPE

Section (A) : Oxidation number

1. The oxidation number that iron does not exhibit in its common compounds or in its elemental state is -
(1) 0 (2) +1 (3) +2 (4) +3

2.✍ The oxidation state of nitrogen varies from:
(1) –3 to + 5 (2) 0 to +5 (3) –3 to 1 (4) +3 to +5

3. When H_2SO_3 is converted into H_2SO_4 the change in the oxidation state of sulphur is from :
(1) 0 to + 2 (2) +2 to + 4 (3) +4 to +2 (4) +4 to + 6

4. The halogen that shows same oxidation state in all its compounds with other elements is :
(1) I_2 (2) F_2 (3) Cl_2 (4) Br_2

5. Most stable oxidation state of gold is -
(1) + 1 (2) +3 (3) +2 (4) zero

6.✍ The most stable oxidation state of chromium is -
(1) +5 (2) +3 (3) +2 (4) +4

7. Which can have both +ve and –ve oxidation states?
(1) F (2) I (3) Na (4) He

8. Which metal exhibits more than one oxidation states?
(1) Na (2) Mg (3) Al (4) Fe

9. The most common oxidation state of an element is –2. The number of electrons present in its outer most shell is :
(1) 2 (2) 4 (3) 6 (4)8

10. Conversion of $PbSO_4$ to PbS the oxidation number of sulphur in PbS is-
(1) –2 (2) + 6 (3) +4 (4) –1

11.✍ Oxidation state of oxygen in H_2O_2 is :
(1) –2 (2) –1 (3) +1 (4) +2

12. The oxidation number of phosphorus in $Mg_2P_2O_7$ is :
(1) +5 (2) –5 (3) +6 (4) –7

Section (B) : Inorganic nomenclature

1. Correct formula of aluminium perchlorate is :
(1) $Al(ClO)_3$ (2) $Al(ClO_2)_3$ (3) $Al_2(ClO_3)_3$ (4) $Al(ClO_4)_3$

2. Sodium chlorite is :
(1) $NaClO_3$ (2) $NaClO_2$ (3) NaClO (4) $NaClO_4$

3. Aluminium phosphide is :
(1) AlP_3 (2) Al_2P_3 (3) AlP (4) Al_3P_2

4. Formula of Dioxygen diflouride is :
(1) OF_2 (2) O_2F (3) O_2F_2 (4) O_2F_3

5. Barium azide is :
(1) BaN (2) Ba_2N_3 (3) $Ba(N_3)_2$ (4) Ba_3N_2

6. Silicon flouride Formula is :
(1) SiF (2) SiF_3 (3) SiF_4 (4) SiF_6

7. Aluminium carbide is :
(1) Al_2C (2) Al_4C_3 (3) AlC_3 (4) AlC

8. Which of the following set of element not forms metaoxy acids:
(1) Cl, S, N (2) Cl, S, P (3) Si, C, B (4) C, Si, P

9. Name of oxyanion of boric acid (H_3BO_3) is :
(1) Borate ion (2) Boraite ion (3) Hypo Borite ion (4) Per borate ion

Exercise-2

Marked Questions may have for Revision Questions.

1. The oxidation number of sulphur in H_2SO_5
(1) +3 (2) +5 (3) +6 (4) +8

2. Which of the following is a correct statement.
(1) The name of SO_3^{2-} is sulphite
(2) ZnF_3 is correct formula
(3) Zn can only show the oxidation state +3
(4) The element having atomic numbers 29 lies in p-block

3. Match column-I with column II and select correct.

	Column-I		**Column-II**
(I)	CO_3^{2-}	(P)	Carbonate ion
(II)	N_3^-	(Q)	Azide ion
(III)	O_2^{2-}	(R)	Acetate ion
(IV)	CH_3COO^-	(S)	Peroxide ion

Code

	I	II	III	IV		I	II	III	IV
(1)	P	Q	R	S	(2)	P	Q	S	R
(3)	R	S	Q	R	(4)	R	P	Q	S

4. Dichromate ion is :
(1) CrO_4^{2-} (2) $Cr_2O_7^{2-}$ (3) CrO_3 (4) Cr_2O_4

5. In following compound dithionic acid is :
(1) $H_2S_2O_6$ (2) $H_2S_2O_4$ (3) H_2SO_5 (4) $H_2S_2O_3$

6. Mercurous azide is
(1) $Hg_2(N_3)_2$ (2) HgN_3 (3) Hg_2N_3 (4) $Hg(N_3)_2$

7. Ethyl methyl ether, $CH_3–O–C_2H_5$, is used as an anaesthetic. Formula for corresponding thioether would be
(1) $CH_3–S–C_2H_5$ (2) $CH_3–O–S–C_2H_5$ (3) $C_2H_5–O–CH_3$ (4) $C_2H_5–O–CH_2SH$

8. Hydracid which contains nitrogen is
(1) HN_3 (2) HNO_3 (3) HNO_2 (4) NH_3

9. Anhydride of $HClO_4$ is
(1) Cl_2O_7 (2) ClO_3 (3) Cl_2O_5 (4) ClO_2

10. In the conversion of Br_2 to BrO_3^-, the oxidation state of bromine changes from-
(1) 0 to + 5 (2) – 1 to + 5 (3) 0 to –3 (4) +2 to +5

11. Oxidation number of S in S_2Cl_2 is :
(1) + 1 (2) + 6 (3) 0 (4) – 1

12. Which of the following element shows only –1 oxidation number in combined state :
(1) F (2) Cl (3) Br (4) I

13. The oxidation number of Fe in FeS_2 is
(1) +4 (2) +2 (3) +1 (4) zero

14. Which of the following oxyacids forms pyroxyacids :
(1) H_3PO_4 (2) H_3BO_3 (3) H_2SO_4 (4) All of these

15. Sodium tri-sulphide Formula is :
(1) Na_2S_3 (2) Na_3S (3) Na_3S_2 (4) Na_2S

16. PO_4^{3-} is :
(1) Phosphate ion (2) Phasphite ion (3) Hypophosphite ion (4) Pyrophosphite ion

17. Pyrophosphoric acid is :
(1) H_3PO_4 (2) $H_4P_2O_5$ (3) $H_4P_2O_7$ (4) H_3PO_3

Answers

EXERCISE - 1

SECTION (A)

1.	(2)	**2.**	(1)	**3.**	(4)	**4.**	(2)	**5.**	(4)	**6.**	(2)	**7.**	(2)
8.	(4)	**9.**	(3)	**10.**	(1)	**11.**	(2)	**12.**	(1)				

SECTION (B)

1.	(4)	**2.**	(2)	**3.**	(3)	**4.**	(3)	**5.**	(3)	**6.**	(3)	**7.**	(2)
8.	(1)	**9.**	(1)										

EXERCISE - 2

1.	(3)	**2.**	(1)	**3.**	(2)	**4.**	(2)	**5.**	(1)	**6.**	(1)	**7.**	(1)
8.	(1)	**9.**	(1)	**10.**	(1)	**11.**	(1)	**12.**	(1)	**13.**	(2)	**14.**	(4)
15.	(1)	**16.**	(1)	**17.**	(3)								