

INORGANIC CHEMISTRY

Q.1) The reaction between following pairs will produce hydrogen except

- [1] $\text{Cu} + \text{HCl}$
- [2] $\text{Fe} + \text{HCl}$
- [3] $\text{Mg} + \text{steam}$
- [4] $\text{Na} + \text{alcohol}$

Q.2) Which of the following gives hydrogen with dil HNO_3 ?

- [1] Zn
- [2] Sn
- [3] Al
- [4] Mn

Q.3) Tritium emits

- [1] α - particle
- [2] β - particle
- [3] γ - particle
- [4] neutron

Q.4) Oxygen is obtained by heating

- [1] ammonium dichromate
- [2] potassium permanganate
- [3] bleaching powder
- [4] sodium peroxide

Q.5) Number of isotopes of oxygen are

- [1] 1
- [2] 2
- [3] 3
- [4] 0

Q.6) It is possible to obtain O_2 from air by fractional distillation because

- [1] oxygen is in different group than nitrogen
- [2] oxygen has higher b.p. than nitrogen
- [3] oxygen has lower density than nitrogen

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[4] oxygen is more reactive than oxygen

Q.7) Ozone and KI solution produces

[1] I_2

[2] HI

[3] IO_3

[4] IO

Q.8) Tusk of elephant can be bleached by

[1] O_2

[2] O_3

[3] SO_2

[4] Cl_2

Q.9) The pair that yields the same gaseous product when reacted with water is

[1] Na and Na_2O_2

[2] K and KO_2

[3] Ba and BaO_2

[4] Ca and CaH_2

Q.10) Heavy water is no need for drinking purpose because

[1] its chemical properties are different from ordinary water

[2] its physiological action is different from ordinary water

[3] it is poisonous

[4] it is costly

Q.11) Hardness of water is due to

[1] Ca^{2+} and K^+

[2] Ca^{2+} and Mg^{2+}

[3] Mg^{2+} and K^+

[4] Ba^{2+} and Zn^{2+}

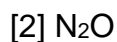
Q.12) Calgon is

[1] $Na_2[Na_4(PO_3)_6]$

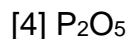
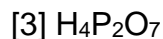
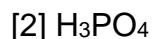
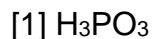
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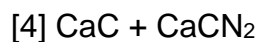
Q.13) Which one of the following is coloured ?



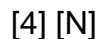
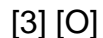
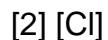
Q.14) Nitric acid oxidizes phosphorus to



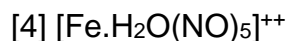
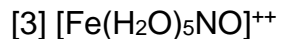
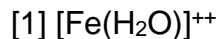
Q.15) Nitrolim is



Q.16) The active species present in aquaregia is



Q.17) The brown ring test is due to the formation of complex ion



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Q.18) Catalytic oxidation of ammonia gives

- [1] NO
- [2] NO₂
- [3] N₂O₃
- [4] N₂

Q.19) $\text{Au} + [\text{Cl}] \rightarrow \text{X} + \text{HCl}$ (excess) $\rightarrow \text{Y}$, What are X and Y?

- [1] AuCl₂ and H₂[AuCl₄]
- [2] AuCl₃ and H[AuCl₄]
- [3] AuCl₂ and H[AuCl₄]
- [4] AuCl₃ and H₂[AuCl₃]

Q.20) Which one is most volatile?

- [1] HF
- [2] HCl
- [3] HBr
- [4] HI

Q.21) Iodine is formed when KI react with a solution of

- [1] ZnSO₄
- [2] CuSO₄
- [3] FeSO₄
- [4] Hg₂I₂

Q.22) A red flower and a paper dipped in printer ink is placed in a test tube then Cl₂ gas is passed. What happens?

- [1] Paper is bleached
- [2] Flower is bleached
- [3] Both are bleached
- [4] None are bleached

Q.23) Which is correct order for oxidizing nature?

- [1] HClO > HClO₂ < HClO₃ > HClO₄
- [2] HClO > HClO₂ > HClO₃ > HClO₄

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[3] $\text{HClO} > \text{HClO}_2 < \text{HClO}_3 < \text{HClO}_4$

[4] $\text{HClO} > \text{HClO}_3 < \text{HClO}_2 > \text{HClO}_4$

Q.24) CO reacts with Cl_2 in sunlight to give

[1] CCl_4

[2] CHCl_3

[3] COCl_2

[4] CO_2

Q.25) Water transported through lead pipe becomes poisonous due to the formation of

[1] PbO

[2] Pb(OH)_2

[3] PbO_2

[4] Pb_3O_4

Q.26) The carbide which is used as abrasive is

[1] WC

[2] CaC_2

[3] Al_4C_3

[4] SiC

Q.27) $\text{CO}_2 \xrightleftharpoons{1500^\circ\text{C}} ?$

[1] $\text{C} + \text{O}_2$

[2] $\text{CO} + \text{O}_2$

[3] $\text{C} + \text{CO}$

[4] $\text{C} + \text{O}_3$

Q.28) A disease caught by a person while working with phosphorus is

[1] cancer

[2] phossy jaw

[3] rickets

[4] arthritis

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Q.29) Bone glow in dark. This is due to

- [1] presence of red phosphorus
- [2] conversion of white to red phosphorus
- [3] slow combustion of white phosphorus in contact with air
- [4] conversion of red to white phosphorus

Q.30) P_2O_5 heated with water gives

- [1] hypo phosphorus
- [2] phosphorus acid
- [3] hypo phosphoric acid
- [4] ortho phosphoric acid

Q.31) Which of the following is used to treat skin disease?

- [1] N
- [2] P
- [3] S
- [4] O

Q.32) Bleaching action of SO_2 is due to

- [1] oxidation
- [2] reduction
- [3] hydrolysis
- [4] electrolysis

Q.33) Which can act as both oxidizing and reducing agent?

- [1] SO
- [2] SO_2
- [3] SO_3
- [4] S_2O_3

Q.34) Which is used to absorb SO_2 gas?

- [1] KOH
- [2] H_2SO_4
- [3] H_2O

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[4] It is hardly absorbed

Q.35) Conc. H_2SO_4 has great affinity for

[1] H_2S

[2] H_2O

[3] CO_2

[4] O_2

Q.36) In contact process, the impurities of arsenic are removed by

[1] Fe_2O_3

[2] $\text{Fe}(\text{OH})_3$

[3] $\text{Al}(\text{OH})_3$

[4] $\text{Ce}(\text{OH})_3$

Q.37) $\text{SO}_2 + \text{Cl}_2 + \text{H}_2\text{O} \rightarrow ?$

[1] $\text{HCl} + \text{H}_2\text{S}$

[2] $\text{H}_2\text{S} + \text{H}_2\text{SO}_4$

[3] $\text{H}_2\text{SO}_4 + \text{HCl}$

[4] $\text{H}_2\text{SO}_4 + \text{ClO}_2$

Q.38) In acidic solution, Cd^{++} furnishes _____ precipitation with H_2S .

[1] Blue

[2] Black

[3] Yellow

[4] Orange

Q.39) Peroxo sulphuric acid is

[1] Caro's acid

[2] Marshall's acid

[3] Thiosulphuric acid

[4] Dithionic acid

Q.40) B_2O_3 is

[1] acidic

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- [2] basic
- [3] neutral
- [4] amphoteric

Q.41) In diborane, banana bond is formed between

- [1] 2 electrons, 3 atoms
- [2] 1 electrons, 3 atoms
- [3] 3 electrons, 3 atoms
- [4] 3 electrons, 2 atoms

Q.42) Glass is soluble in

- [1] HClO_4
- [2] HF
- [3] aqua regia
- [4] H_2SO_4

Q.43) In solid state, argon atoms are held by

- [1] ionic bond
- [2] covalent bond
- [3] Van der waal's force
- [4] hydrogen bond

Q.44) The coloured discharge tubes for advertisement mainly contains

- [1] Xe
- [2] Ar
- [3] Ne
- [4] He

Q.45) No. of lone pairs of electron on Xe atoms in XeF_2 , XeF_4 and XeF_6 molecules respectively are

- [1] 3,2,1
- [2] 4,3,2
- [3] 2,3,1
- [4] 3,2,0

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Q.46) Acid rain has pH

- [1] =5.6
- [2] >5.6
- [3] <5.6
- [4] none of above

Q.47) Which of the following process occur in Troposphere

- [1] Photosynthesis
- [2] Acid rain
- [3] Green house effect
- [4] Ozone layer depletion

Q.48) Complex formation method is used for the extraction of

- [1] Cu
- [2] Ag
- [3] Fe
- [4] Hg

Q.49) Carbon monoxide reduction process is used to extract

- [1] Cu
- [2] Ag
- [3] Fe
- [4] Sn

Q.50) German silver contains

- [1] Ag,Cu,Zn
- [2] Cu,Zn,Ni
- [3] Cu,Zn,Ag
- [4] Zn,Fe,Cu

Q.51) Molecular formula of Tincal, the natural ore of sodium is

- [1] NaNO_3
- [2] $\text{NaB}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$

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[3] $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$

[4] NaCl

Q.52) The raw material used in the manufacture of sodium carbonate by solvay's process are

[1] NH_3 and CO_2

[2] NaCl and CO_2

[3] $\text{NaCl} + \text{CaCO}_2 + \text{CO}_2$

[4] $\text{NaCl} + \text{CaCO}_2 + \text{NH}_3$

Q.53) Gypsum on heating to 120°C gives

[1] $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

[2] $\text{CaSO}_4 \cdot \text{H}_2\text{O}$

[3] CaSO_4

[4] $\text{CaSO}_4 \cdot 1/2\text{H}_2\text{O}$

Q.54) Lithopone is mixture of

[1] $\text{BaSO}_4 \cdot \text{ZnSO}_4$

[2] $\text{ZnS} \cdot \text{BaSO}_4$

[3] $\text{ZnCO}_3 \cdot \text{BaCO}_3$

[4] $\text{ZnS} \cdot \text{BaS}$

Q.55) The drying agent which absorbs carbondioxide and reacts violently with water is

[1] sodium carbonate

[2] conc. Sulphuric acid

[3] alcohol

[4] calcium oxide

Q.56) Copper matte is a

[1] CuS containing FeS

[2] CuS containing FeO

[3] FeS containing CuS

[4] Equal amount of FeS and CuS

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Q.57) Antidote of _____ is white of egg.

- [1] Hg
- [2] Hg_2Cl_2
- [3] HgCl_2
- [4] Hg and HgCl_2

Q.58) Alloy of iron is heated and left to cool slowly. The process is called

- [1] Annealing
- [2] Tempering
- [3] Quenching
- [4] Nitriding

Q.59) Mac-Arthur-Forrest process is concerned with the extraction of

- [1] Cu
- [2] Ag
- [3] Au
- [4] Ni

Q.60) Ram said to Hari, "Don't touch the kipp's waste." He said so because one can get _____ from it.

- [1] White vitriol
- [2] Blue vitriol
- [3] Green vitriol
- [4] Oil of vitriol