



CHEMISTRY

BOOKS - DISHA PUBLICATION

CHEMISTRY (HINGLISH)

**THE P-BLOCK ELEMENTS (GROUP 15,
16, 17 & 18)**

Exercise

1. Among the oxides of nitrogen : N_2O_3 , N_2O and N_2O_5 , the molecules having nitrogen-nitrogen bond is/are

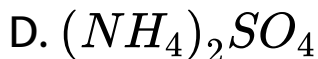
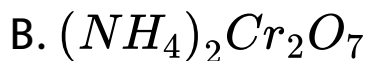
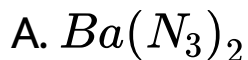


Answer: A



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2. The compound that does not produce nitrogen gas by the thermal decomposition is



Answer: D



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3. A metal 'M' reacts with nitrogen gas to afford ' M_3N '. ' M_3N ' on heating at high temperature gives back 'M' and on reaction with water produces a gas 'B'. Gas 'B' reacts with aqueous solution of $CuSO_4$ to form a deep blue compound. 'M' and 'B' respectively are :

A. Li and NH_3

B. Ba and N_2

C. Na and NH_3

D. Al and N_2

Answer: A



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4. The number of $S = O$ and $S-OH$ bonds present in peroxodisulphuric acid and pyrosulphuric acid respectively are :

- A. (2 and 2) and (2 and 2)
- B. (2 and 4) and (2 and 4)
- C. (4 and 2) and (2 and 4)
- D. (4 and 2) and (4 and 2)

Answer: D



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5. The products obtained when chlorine gas reacts with cold and dilute aqueous $NaOH$ are :



Answer: C



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6. Which intermolecular force is most responsible in allowing xenon gas to liquefy ?

A. Instantaneous dipole-induced dipole

B. Ion-dipole

C. Ionic

D. Dipole-dipole

Answer: A



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7. The non-metal that does not exhibit positive oxidation state is:

A. Chlorine

B. Iodine

C. Fluorine

D. Oxygen

Answer: C



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8. The pair in which phosphorus atoms have a formed oxidation state of $+3$ is

A. Orthophosphorous and hypophosphoric acids

B. Pyrophosphorous and pyrophosphoric acids

C. Orthophosphorous and

pyrophosphorous acids

D. Pyrophosphorous and hypophosphoric

acids

Answer: C



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9. The least number of oxyacids are formed by:

A. Chlorine

B. Nitrogen

C. Fluorine

D. Sulphur

Answer: C



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10. The geometry of $XeOF_4$ by VSEPR theory is

:

A. pentagonal planar

B. octahedral

C. square pyramidal

D. trigonal bipyramidal

Answer: C



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11. Which of the following halide does not hydrolyse

A. $SbCl_3$

B. $AsCl_3$

C. PCl_3

D. NF_3

Answer: D



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12. NO is purified by

A. Absorption in $(NH_4)_2SO_4$ solution

B. Passing into conc. H_2SO_4

C. Absorbing in $FeSO_4$ solution

D. Electrolysis method

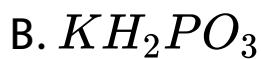
Answer: C



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13. If phosphorous acid is allowed to react with sufficient quantity of KOH , the product obtained is.

A. K_3PO_3



Answer: C



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14. Which one of the following pairs is obtained on heating ammonium dichromate?



B. N_2O and H_2O

C. NO and H_2O

D. NO and N_2O

Answer: A



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15. Nitrogen reacts with calcium and carbon or when N_2 gas is passed over heated calcium carbide (at $1070K$) it gives ___ which is an

important fertiliser marketed under the name Nitrolium.

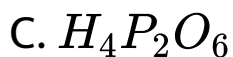
- A. Calcium nitrate
- B. Calcium cyanide
- C. Calcium cyanamide
- D. Calcium nitride

Answer: C



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16. Which of the following compound had a P-P bond ?



Answer: C



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17. P_2H_4 can be removed from phosphine containing traces of it

A. by passing impure PH_3 gas through a freezing mixture

B. by passing the impure PH_3 gas through HI and then its treatment with KOH (aq)

C. by both (a) and (b)

D. by none of these

Answer: C



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18. The dipole moment of NF_3 is less than NH_3 because

- A. NH_3 forms associated molecules
- B. F is more reactive than H
- C. The resultant of bond polarity is less
- D. The resultant in individual polarities is opposed by the polarity of lone pair

Answer: D



19. Which one is incorrect

A. White phosphorus glows in dark because of its slow combustion in air

B. The energy of oxidation of white phosphorus (i.e., slow combustion in air) is emitted as light.

C. Red phosphorus glows in dark because of its slow combustion in air

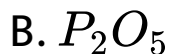
D. Cold fire can be produced by combustion
of white phosphorus

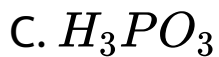
Answer: C



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20. When orthophosphoric acid is heated to $600^{\circ}C$ the product formed is



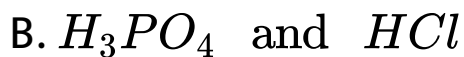


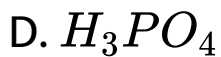
Answer: D



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21. PCl_3 reacts with water to form :





Answer: B



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22. Nitrogen is relatively inactive element because

A. its atom has a stable electronic configuration

B. it has low atomic radius

C. its electronegativity is fairly high

D. dissociation energy of its molecule is
fairly high

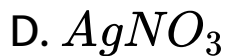
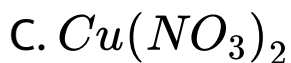
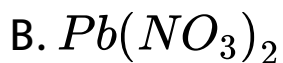
Answer: D



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23. Nitrogen dioxide cannot be prepared by
heating :

A. KNO_3



Answer: A



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24. The number of hydrogen atoms attached to phosphorus atom in hypophosphorus is

A. 3

B. 1

C. 2

D. 0

Answer: C



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25. Which of the following statements is not correct for nitrogen ?

A. Its electronegativity is very high

B. d-orbitals are available for bonding

C. It is a typical non-metal

D. Its molecular size is small

Answer: B



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26. Collectively the elements of group 15 are called

A. pnicogens

B. pnicopens

C. nicopen

D. none of these

Answer: A



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27. Chlorine upon reaction with $NaOH$ in cold yields :

A. $NaCl, NaClO, H_2O$

B. $NaCl$, $NaClO_3$, H_2O

C. $NaClO$, $NaClO_3$, H_2O

D. $NaCl$, H_2O

Answer: A

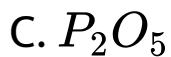


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28. NH_3 gas is dried over

A. CaO

B. HNO_3

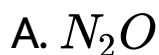


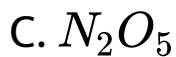
Answer: A



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29. Which of the following oxides of nitrogen is a coloured gas ?





Answer: D



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30. The number of $P - O - P$ bonds in cyclic metaphosphoric acid is.

A. 0

B. 2

C. 3

D. 4

Answer: C

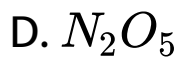
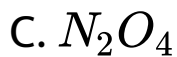


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31. Blue solid which is obtained on reacting equimolar amounts of two gases at 245K is

A. N_2O

B. N_2O_3

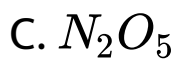
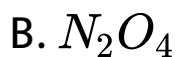
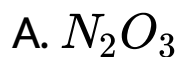


Answer: B



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32. Which of the following oxides is neutral ?



D. N_2O

Answer: D



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33. Ammonia on reaction with hypochlorite anion can form :

A. NO

B. N_2H_4

C. NH_4Cl

D. both (b) and (c)

Answer: D



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34. How many bonding electron pairs are there in white phosphorus ?

A. 2

B. 4

C. 3

D. 6

Answer: D



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35. Producer gas is a mixture of :

A. CO and N_2

B. CO_2 and H_2

C. N_2 and O_2

D. CH_4 and N_2

Answer: A



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36. One mole of magnesium nitride on reaction with an excess of water gives

- A. one mole of NH_3
- B. two moles of NH_3
- C. one mole of HNO_3
- D. two moles of HNO_3

Answer: B



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37. One mole of calcium phosphide on reaction with excess water gives

- A. one mole of phosphine.
- B. two moles of phosphoric acid.
- C. two moles of phosphine.
- D. one mole of phosphorus pentoxide.

Answer: C



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38. Which is the most thermodynamically stable allotropic form of phosphorus ?

A. Red

B. White

C. Black

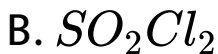
D. Yellow

Answer: C



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39. The product formed in the reaction of $SOCl_2$ with white phosphorus is



Answer: A



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40. In case of hydride of oxyge family, which of the following physical property change regularly on moving down the group

- A. Melting point
- B. Thermal stability
- C. Boiling point
- D. Critical temperature

Answer: B



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41. Which of the following statements is correct:

- A. Ozone is a resonance hybrid of oxygen.
- B. Ozone is an isomer of oxygen.
- C. Ozone has no relationship with oxygen.

D. Ozone is an allotropic modification of oxygen.

Answer: D



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42. it is possible to obtain oxygen from air by fractional distillation because

A. oxygen is in a different group of the periodic table from nitrogen.

B. oxygen is more reactive than nitrogen.

C. oxygen has higher b.p. than nitrogen.

D. oxygen has a lower density than nitrogen.

Answer: C



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43. The number of $S - S$ bonds in SO_3 , $S_2O_3^{2-}$, $S_2O_6^{2-}$ and $S_2O_8^{2-}$ respectively are

A. 1,0,0,1

B. 1,0,1,0

C. 0,1,1,0

D. 0,1,0,1

Answer: C



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44. Oleum is

A. castor Oil

B. oil of vitriol

C. fuming H_2SO_4

D. none of them

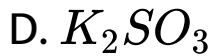
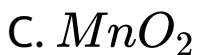
Answer: C



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45. By passing H_2S gas in acidified $KMnO_4$ solution, we get

A. S



Answer: A



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46. Oxidation of thiosulphate by iodine gives

A. tetrathionate ion

B. sulphide ion

C. sulphate ion

D. sulphite ion

Answer: A



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47. When PbO_2 reacts with conc. HNO_3 the gas evolved is

A. NO_2

B. O_2

C. N_2

D. N_2O

Answer: B



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48. The compound which gives off oxygen on moderate heating is:

A. cupric oxide

B. mercuric oxide

C. zinc oxide

D. aluminium oxide

Answer: B



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49. Oxidation state exhibited by sulphur is

A. + 6

B. + 4

C. 0

D. All of the above

Answer: D



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50. On electrolysis of dilute sulphuric acid using platinum electrodes, the product obtained at the anode will be

A. hydrogen

B. oxygen is more reactive than nitrogen.

C. hydrogen sulphide

D. sulphur dioxide

Answer: B



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51. A gas that cannot be collected over water is.

A. N_2

B. O_2

C. SO_2

D. PH_3

Answer: C



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52. Sodium thiosulphate is prepared by

A. reducing Na_2SO_4 solution with H_2S .

B. boiling Na_2SO_3 solution with S in
alkaline medium.

C. neutralising $H_2S_2O_3$ solution with NaOH.

D. boiling Na_2SO_3 solution with S in acidic medium.

Answer: B



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53. Which of the following is not oxidized by O_3 ?

A. Kl

B. $FeSO_4$

C. $KMnO_4$

D. K_2MnO_4

Answer: C



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54. Which one of the following compounds is a peroxide?

A. KO_2

B. BaO_2

C. MnO_2

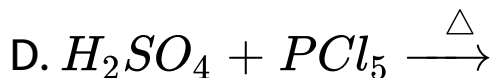
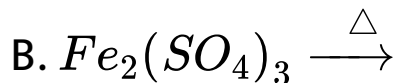
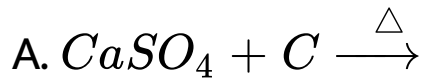
D. NO_2

Answer: B



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55. Sulphur trioxide can be obtained by which of the following reactions:

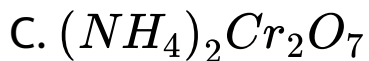
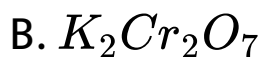
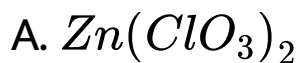


Answer: B



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56. Which of the following does not give oxygen on heating?

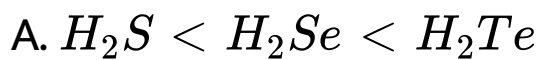


Answer: C



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57. Acidity of diprotic acids in aqueous solutions increases in the order

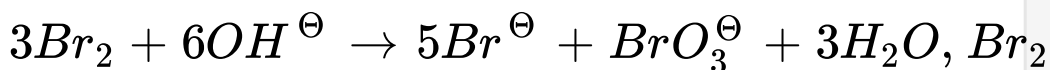


Answer: A



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58. In the reaction:



is

A. Oxidised

B. Reduced

C. Disintegrated

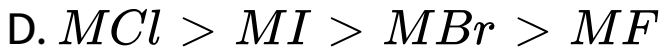
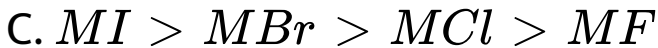
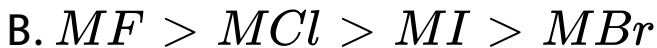
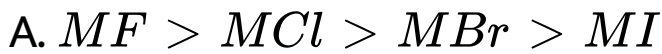
D. Disproportionated

Answer: D



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59. In the case of alkali metals, the covalent character decreases in the order.



Answer: C



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60. Potassium chlorate on heating with cone

H_2SO_4 gives

A. chlorine dioxide

B. $HClO_4$

C. $KHSO_4$

D. All of these

Answer: D



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61. In the manufacture of bromine from sea water the mother liquor containing bromide is treated with

A. carbon dioxide

B. chlorine

C. iodine

D. sulphur dioxide

Answer: B



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62. Which of the following species has four lone..

A. I

B. O^-

C. Cl^-

D. He

Answer: C



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63. Which one is the correct order of the size of the iodine species?

A. $I > I^+ > I^-$

B. $I > I^- > I^+$

C. $I^+ > I^- > I$

D. $I^- > I > I^+$

Answer: D



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64. A one litre flask is full of brown bromine vapours. The intensity of brown colour of

vapour will not decrease appreciably on adding to the flask some.

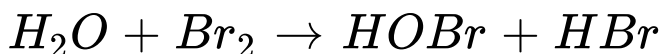
- A. pieces of marble
- B. animal charcoal powder
- C. carbon tetrachloride
- D. carbon disulphide

Answer: A



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65. Which is the best description of the behaviour of bromine in the reaction given below



- A. Proton acceptor only
- B. Both oxidized and reduced
- C. Oxidized only
- D. Reduced only

Answer: B



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66. Conc. HNO_3 reacts with I_2 to form:

A. HI

B. HOI

C. HIO_2

D. HIO_3

Answer: D



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67. For a given alcohol the order of reactivity of halogen acids is :



Answer: A



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68. Iodine is a :

A. electrovalent solid

B. atomic solid

C. molecular solid

D. covalent solid

Answer: C



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69. The correct order of increasing bond angles in the following species are:

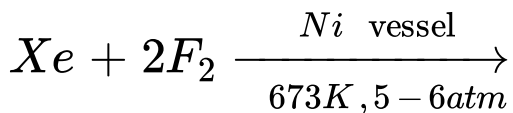


Answer: D



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70. Which compound is prepared by the following reaction?



Answer: C



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71. Liquid flow from a higher to a level .Which of the following liquids can climb up the wall of the glass vessel in which it is placed ?

A. Alcohol

B. Liquid He

C. Liquid N_2

D. Water

Answer: B



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72. In the clathrates of xenon with water, the nature of bonding between xenon and water molecule is:

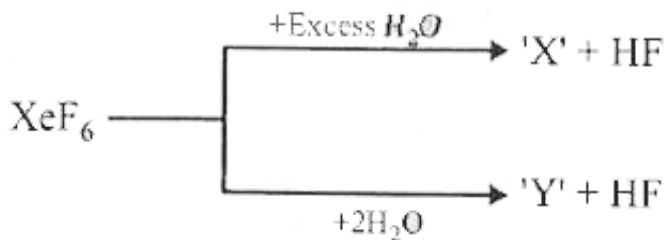
- A. covalent
- B. hydrogen bonding
- C. coordinate
- D. dipole-induced dipole

Answer: D



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73. Incorrect statement regarding following reactions is ::



- A. X' is explosive
- B. Y' is an oxyacid of xenon
- C. Both are example of non-redox reaction
- D. XeF_6 can undergo partial hydrolysis

Answer: B



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74. Total number of lone pair of electrons is

$XeOF_4$ is

A. 0

B. 1

C. 2

D. 3

Answer: B



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75. The density of neon will be highest at

A. $0^{\circ}C$ and 2 atm

B. $273^{\circ}C$ and 2 atm

C. STP

D. $273^{\circ}C$ and 1 atm

Answer: A



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76. Which of the following is least polarisable?

A. Ne

B. He

C. Xe

D. Kr

Answer: B



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77. For advertisement, the coloured discharge tubes contain:

A. He

B. Ne

C. Ar

D. Kr

Answer: B



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78. Monazite is source of

A. He

B. Kr

C. Ar

D. both (b) and (c)

Answer: A



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79. Noble gases are group of elements which exhibit very :

- A. high chemical activity
- B. low chemical activity
- C. minimum electronegativity
- D. paramagnetic properties

Answer: B



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80. Which inert gas has abnormal behaviour on liquefaction ?

A. Xe

B. He

C. Ar

D. Kr

Answer: B



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81. Which of the following compound does not produce oxyacid of central atom on hydrolysis?

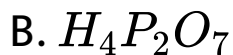
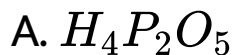


Answer: B



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82. Which of the following oxyacid contains both P-H and P-P bond simultaneously?



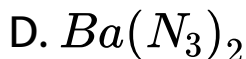
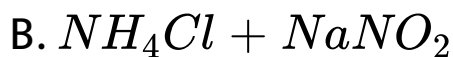
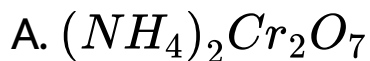
D. None

Answer: D



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83. Among the following compounds, which on heating do not produce N_2 ?

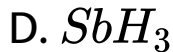


Answer: C



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84. Which of the following species has the highest dipole moment?



Answer: A



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85. Following tests are shown by

(i) Decolourisation of acidified soln. of



(ii) Liberation of I_2 from an acidified soln. of



(iii) On treatment with dil HCl , brown fumes

of NO_2 which turns $FeSO_4$ soln. black.

A. Nitrites

B. Nitrates

C. Both (a) and (b)

D. Neither (a) nor (b)

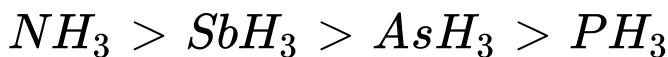
Answer: A



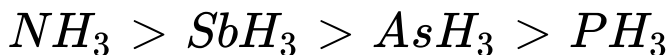
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86. Which is the correct sequence in the following properties? For the correct order mark (T) and for the incorrect order mark (F) :

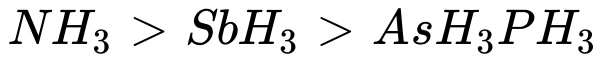
(i) Melting point :



(ii) Boiling point :



(iii) Dipole moment order :



A. TFT

B. FTF

C. FFT

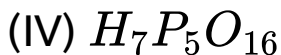
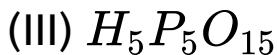
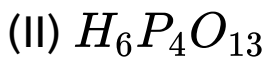
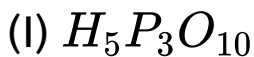
D. FFT

Answer: A



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87. Amongst the following compounds



non-cyclic phosphates are:

A. I,II

B. I,II,III

C. I,II,IV

D. I,II,III,IV

Answer: C



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88. Nitrogen forms N_2 , but phosphorus is converted into P_4 from P, the reason is

A. Triple bond is present between phosphorous atom

B. $p_\pi - p_\pi$ bonding is strong

C. $p_\pi - p_\pi$ bonding is weak

D. Multiple bond is formed easily

Answer: C



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89. In case of nitrogen, NCl_3 is possible but not NCl_5 while in case of phosphorous, PCl_5 are possible. It is due to

A. availability of vacant d orbitals in P but not in N.

B. lower electronegativity of P than N.

C. lower tendency of H-bond formation in
P than N.

D. Occurrence of P in solid while N in
gaseous state at room temperature.

Answer: A



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90. What may be expected to happen when phosphine gas is mixed with chlorine gas ?

A. PCl_3 and HCl are formed and the mixture warms up.

B. PCl_5 and HCl are formed and the mixture cools down.

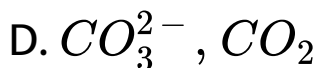
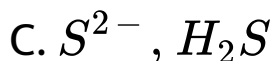
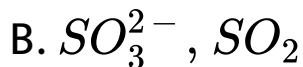
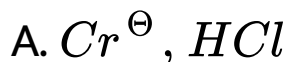
C. PH_3 . Cl_2 is formed with warming up.

D. The mixture only cools down.

Answer: B

91. $[X] + H_2SO_4 \rightarrow [Y]$ colourless with irritating smell. $[Y] + K_2Cr_2O_7 + H_2SO_4 \rightarrow$ green solution

$[X]$ and $[Y]$ are

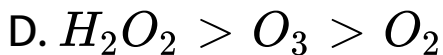
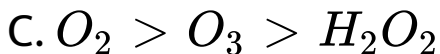
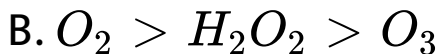
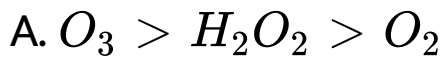


Answer: B



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92. The correct order of O - O bond length in $O_2H_2O_2$ and O_3 is



Answer: D



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93. Identify the correct sequence of increasing number of π -bonds in the structure of the following molecules:

(I) $H_2S_2O_6$ (II) $H_2S_2O_3$ (III) $H_2S_2S_5$

A. I,II,III

B. II,III,I

C. II,I,III

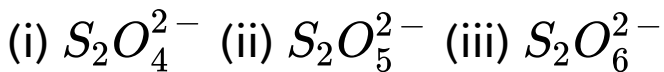
D. I,III,II

Answer: B



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94. The correct order of S-S bond length is following oxyanions is :



A. $I > II > III$

B. $I > III > II$

C. $III > II > I$

D. $III > I > II$

Answer: A



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95. Which of the following statements is false?

A. Radon is obtained from the decay of radium

B. Helium is inert gas

C. Xenon is the most reactive among the rare gases

D. The most abundant rare gas found in the atmosphere is helium

Answer: D



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96. Oxygen and sulphur both are the members of the same group in periodic table but H_2O is liquid while H_2S is gas because

A. molecular weight of water is more.

B. electronegativity of sulphur is more.

C. H_2S is weak acid.

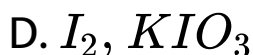
D. water molecules are having weak hydrogen bonds between them.

Answer: D



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97. A greenish yellow gas reacts with an alkali metal hydroxide to form a halate which can be used in fireworks and safety matches. The gas and the halate are



Answer: B



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98. Which one of the following pairs of reactants does not form oxygen when they react with each other ?

A. F_2 , $NaOH$ solution (hot, conc.)

B. F_2 , H_2O

C. Cl_2 , $NaOH$ solution (cold, dilute)

D. $CaOCl_2$, H_2SO_4 (dilute, small amount)

Answer: C



99. Which of the following is correct statement?

A. F_2 has higher dissociation energy than

Cl_2 .

B. F has higher electron affinity than Cl.

C. HF is stronger acid than HCl.

D. Boiling point increases down the group
in halogens.

Answer: D



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100. Only iodine forms hepta-fluoroide IF_7 , but chlorine and bromine give penta-fluorides.

The reason for this is:

A. Low electron affinity of iodine.

B. Unusual pentagonal bipyramidal

structure of IF_7 .

C. That the large iodine atom can accommodate more number of smaller fluorine atom around it.

D. Low chemical reactivity of IF_7 ,

Answer: C



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101. The incorrect order is

A. $HF > HCl < HBr < HI$: Acidic strength

B. $HF > HCl > HBr > HI$: Thermal stability

C. $HF > HCl > HBr > HI$: Boiling point

D. $HF > HCl > HBr > HI$: Bond dissociation enthalpy

Answer: C



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102. Which of the following oxyacids of chlorine is formed on shaking chlorine water with freshly precipitated yellow oxide of mercury?



Answer: C



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103. The correct statement(s) regarding,

(i) $HClO$, (ii) $HClO_2$, (iii) $HClO_3$ and (iv) $HClO_4$ is (are)

A. The number of $Cl = O$ bonds in (ii) and (iii) together is two.

B. The number of lone pairs of electrons on Cl in (ii) and (iii) together is three.

C. The hybridization of Cl in (iv) is sp^2 .

D. Amongst (i) to (iv), the strongest acid is (i).

Answer: B



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104. The formation of $O_2^+ [PtF_6]^-$ is the basis for the formation of xenon fluorides. This is because:

A. O_2 and Xe have comparable sizes.

B. Both O_2 and Xe are gases.

C. O_2 and Xe have comparable ionisation energies.

D. Both (a) and (c) .

Answer: D



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105. Inert gases such as helium behave like ideal gases over a wide range of temperature. However, they condense into the solid state

at very low temperatures. it indicates that at very low temperature there is a

A. weak attractive force between the atoms.

B. weak repulsive force between the atoms.

C. strong attractive force between the atoms.

D. strong repulsive force between the atoms.

Answer: B



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106. Out of (i) XeO_3 (ii) $XeOF_4$ and (iii) XeF_6 the molecules having same number of lone pairs on Xe are

- A. (i) and (ii) only
- B. (i) and (iii) only
- C. (ii) and (iii) only
- D. (i), (ii) and (iii)

Answer: D



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107. Noble gases can be separated by:

- A. passing them through suitable solution
- B. electrolysis of their fluorides
- C. adsorption and desorption on charcoal
- D. adsorption and desorption on activated hydrogen

Answer: C



108. XeF_2 and XeF_6 are separately hydrolysed then:

- A. Both give out O_2
- B. XeF_6 gives O_2 and XeF_2 does not
- C. XeF_2 alone gives O_2
- D. Neither of them gives HF

Answer: C

109. SbF_5 react with XeF_4 to form an adduct.

The shapes of cation and anion in the adduct are respectively:

A. Square planar, trigonal bipyramidal

B. T-shaped, octahedral

C. Square pyramidal, octahedral

D. Square planar, octahedral

Answer: B



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110. Which one of the following statements regarding helium is incorrect?

A. It is used to produce and sustain powerful superconducting magnets.

B. It is used as a cryogenic agent for carrying out experiments at low temperatures.

C. It is used to fill gas balloons instead of hydrogen because it is lighter and non-inflammable.

D. It is used in gas-cooled nuclear reactors.

Answer: C



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