

India's Number 1 Education App

### **CHEMISTRY**

### **BOOKS - ACCURATE PUBLICATION**

### **P-BLOCK ELEMENTS**

**Multiple Choice Questions** 

**1.** The group 15 elements are called :

A. Chalcogens

- B. Halogens
- C. Pnicogens

D. Noble gases

#### Answer: C

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#### 2. The elements of group 15 are mostly:

A. Non-Metals

B. Metalloid

C. Metal

D. All of the above.

#### Answer: D



**3.** The general electronic configuration of group 15 elements :

A.  $ns^2 np^3$ 

$$B. ns^2 np^4$$

C. 
$$ns^2np^2$$

D.  $ns^2np^5$ 

#### Answer: A



#### 4. The elements of group 15 are mostly:

$$\mathsf{A.}+5$$

$$\mathsf{B}.-3$$

$$C. -3, +5$$

#### D. None

#### Answer: D

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#### **5.** Maximum covalency of Nitrogen is :

A. 2

B. 4

C. 3





#### 6. The Allotropy character is not shown by :

A. Bi

B. Sb

C. N

D. P

**Answer: A** 



D. All the above.

Answer: D



**8.**  $NF_3$  is an

A. endothermic compound

#### B. exothermic compound

C. both exothermic and endothermic

compound.

D. none of the above.

Answer: B

9. Phosphorus is stored in:

A. water

B. Air

C. Oil

D. None of these

Answer: D

10. The value of ionisation energy of elementsof N family is higher than elements of group16 because of:



**11.** Molecular Nitrogen (N  $\equiv$  N) is very little reactive because it:

A. is highly electronegative

B. has very small atomic size and small

bond length.

C. has lone pair of electrons

D. has no d-orbital

Answer: B

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12. Why does nitric oxide become broen when

released inn air?

A. it combines with  $O_2$  to form nitrogen

dioxide  $(NO_2)$ 

B. it is paramagnetic

C. it can dimerises

D. it has odd electrons

**Answer: B** 

13. Which of the following fluorides does not

exist:

A.  $NF_5$ 

 $\mathsf{B}.\, PF_5$ 

C.  $AsF_5$ 

D.  $SbF_5$ 

Answer: A

14. Which of the following is most explosive :

A.  $NCl_3$ 

B.  $PCl_3$ 

 $\mathsf{C.} AsCl_3$ 

D. All

Answer: A

15. The order of basic strength of hydrides of

the group -15 elements is

 $NH_3>PH_3>AsH_3>BiH_3$  this is due to



#### **16.** Which of the following is paramagnetic

A. *NO* 

B.  $N_2O_4$ 

#### C. $P_4O_6$

#### D. $N_2O_5$

#### Answer: C

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**17.**  $P_4O_{10}$  (Phosphorous pentaoxide) is used as dehydrating agent as :

A. It has strong affinity for water

B. It can sublime on heating

C. It P can form double bond with oxygen

D. P has lone pair of electrons,

#### Answer: A

- **18.**  $PCl_5$  molecule is :
  - A.  $sp^3d$  hybridised
  - B.  $sp^3$  hybridised
  - C.  $sp^2$  hybridised
  - D.  $sp^3d^2$  hybridised





## **19.** Which of the following compounds is most acidic

- A.  $As_2O_3$
- $\mathsf{B.}\,P_2O_3$
- $\mathsf{C.}\,Sb_2O_3$
- D.  $Bi_2O_3$



#### **21.** How many allotropes phosphorus have ?

#### A. 2

B. 3

C. 4

D. 5

#### Answer: C



#### 22. Which allotropic form of P is most reactive

?

A. white phosphorus

B. red phosphorus

C. black phosphorus

D. blue Phosphorus

#### Answer: A

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# **23.** Which allotropic form of P shows chemiluminescence ?

A. red P

B. white P

C. black P

D. blue P

Answer: B



24. P-P-P bond angle in white phosphorus is :

A.  $120^{\,\circ}$ 

B.  $90^{\circ}$ 

 $\mathsf{C.}~109^{\,\circ}\,28$ 

D.  $60^{\,\circ}$ 

#### Answer: D

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## **25.** The acid obtained when $P_4O_6$ reacts with hot water

A.  $H_3PO_2$ 

 $\mathsf{B}.\,H_2PO_3$ 

 $\mathsf{C}.\,H_3PO_4$ 

#### $\mathsf{D}.\,H_3P_2O_7$

Answer: B

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#### 26. The oxo acid of N having oxidation state +

5 is

A.  $H_2N_2O_2$ 

 $\mathsf{B}.\,HNO_3$ 

 $\mathsf{C}.\,HNO_2$ 

#### $\mathsf{D}.\,HNO$

Answer: B

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27. The important oxides of N are

A. NO

 $\mathsf{B.}\,N_2O_3$ 

 $\mathsf{C}.NO_2$ 

D. above all





#### 28. Which oxidant is used as liquid propellant:

#### A. $N_2O$

- B. Nitro cellulose
- $\mathsf{C}.\,H_2SO_4$
- D.  $N_2O_4$

Answer: D



## **29.** Which oxide of nitrogen is produced by

heating lead nitrate ?

A.  $N_2O$ 

- $\mathsf{B.}\,N_2O_3$
- $\mathsf{C}.\,NO$
- $\mathsf{D}.\,NO_2$

#### Answer: D





#### 30. Name the process for manufacture of nitric

acid.

- A. Haber's process
- B. Ostwald process
- C. Solvay Process
- D. Contact Process

#### Answer: B

**31.** Which of the followings are known as Chalcogens ?

A. B, Al, Ga, In

B. N, P, As, Sb

C. F, Cl, Br, I

D. O, S, Se, Te

Answer: D

**32.** Which one of the following outer electronic configuration represents elements of group 16?

A. 
$$ns^2 np^2$$

 $\mathsf{B.}\,ns^2np^3$ 

 $\mathsf{C.}\,ns^2np^4$ 

D.  $ns^2np^5$ 

#### Answer: C



**33.** The decreasing tendency to exist in puckered 8-membered ring is

 ${\rm A.\,S} > \ {\rm Se} \ > \ {\rm Te} \ > \ {\rm Po}$ 

 $\mathsf{B}.\,\mathsf{Se} > \,\mathsf{S} > \,\mathsf{Te} \,> \,\mathsf{Po}$ 

C.S > Te > Se > Po

 $\mathsf{D}.\,\mathsf{Te} > \ \mathsf{Se} > \ \mathsf{S} > \ \mathsf{Po}$ 

#### Answer: A

34. Which of the following has the highest

tendency towards catenation ?

A. Oxygen

B. Selenium

C. Sulphur

D. Tellurium

Answer: C

35. Arrange following pairs, one which doesn't

represent allotropes is

A. Oxygen, Ozone

B. Hydrogen, Deuterium

C. Red Phosphorus, Yellow Phosphorous

D. Diamond, Graphite

Answer: B

36. Oxygen exhibits positive oxidation state in

#### A. *CO*

#### $\mathsf{B.}\,F_2O$

- C. *NO*
- D.  $N_2O$

#### **Answer: B**



**37.** Which of the following element of group 16

is radioactive?

A. Oxygen

B. Selenium

C. Polonium

D. Tellurium

Answer: C

**38.** How many elements are gases at room temperature ?

A. Small size, high electro negativity

B. Large size, high electro negativity

C. Small size, low electro negativity

D. None of the above

Answer: A
**39.** The order of the atomic radii down the group in group 16 is

 $\mathsf{A.S} > \ \mathsf{Se} \ > \ \mathsf{Te} > \ \mathsf{Po} > \ \mathsf{O}$ 

B.O > S > Se > Te > Po

 $\mathsf{C.Po} \ > \ \mathsf{Te} \ > \ \mathsf{Se} \ > \ \mathsf{S} \ > \ \mathsf{O}$ 

 $\mathsf{D}.\,\mathsf{Te} > \,\mathsf{S} > \,\mathsf{Se} > \,\,> \,\,\mathsf{Po}$ 

#### Answer: C

**40.**  $CaSO_4$ .  $2H_2O$  is:

A. Epsom salt

B. Galena

C. Gypsum

D. Baryte

Answer: C



41. Chemical reactivity of gp 16 elements decreases as A. Te > Se > S > O B.O > s > Se > TeC.O < S < Se < TeD.S > O < Se < Te

#### **Answer: B**

42. Anomalous behaviour of oxygen is due to

A. small size

B. absence of vacant d-orbital

C. high electro negativity

D. all the above

Answer: D

**43.** What are amphoteric oxides? give two examples of amphoteric oxides?

A. The oxides which show acidic character

B. The oxides which show both acidic and

basic character

C. The oxides which show basic character

D. none of the above

Answer: B



**44.** The oxo acid of Sulphur which contain a lonepair of electrons on sulphur is

A. Sulphurous acid

B. Sulphuric acid

C. Peroxodisulphuric acid

D. pyrosulphuric acid

Answer: A

**45.** The boiling point of hydrides of group 16 elements are in the order.

A.  $H_2O>H_2S>H_2Te>H_2Se$ 

 $\mathsf{B}.\,H_2Te>H_2Se>H_2S>H_2O$ 

C.  $H_2O>H_2Te>H_2Se>H_2S$ 

D.  $H_2Te > H_2O > H_2S > H_2Se$ 

#### Answer: C

46. Which of the following has lowest reducing

### character

- A.  $H_2O$
- $\mathsf{B}.\,H_2S$
- $\mathsf{C}.\,H_2Te$
- D.  $H_2Se$

Answer: A



47. Oxygen exhibit positive oxidation state in

A.  $H_2O_2$ 

 $\mathsf{B.}\, OF_2$ 

 $\mathsf{C}.\,N_2O$ 

D. None of these

**Answer: B** 

48. Most volatile hydride of element of gp 16 is

A.  $H_2O$ 

B.  $H_2S$ 

 $\mathsf{C}.\,H_2Te$ 

D.  $H_2Se$ 

**Answer: B** 

49. Ozone oxidises moist iodine to

A.  $I_2O_5$ 

 $\mathsf{B.}\,IO_3$ 

 $\mathsf{C}.\,HIO_3$ 

D. HI

Answer: C



50. The no of S - S bonds in sulphur trioxide

trimer  $(S_3O_9)$  is

A. three

B. two

C. one

D. zero

Answer: D

51. Out of group16 elements which molecule

exist as diatomic molecule ?

A. Sulphur

B. Oxygen

C. Selenium

D. Tellurium

Answer: B

**52.** What is the purpose of Catalyst  $MnO_2$  used in thermal decomposition of Potassium Chlorate  $KCIO_3$  ?

A. It lowers the temperature for decomposition of *KCIO*<sub>3</sub>
B. It increases the temperature for decomposition of KCIO
C. it provides more surface area
D. None of these





# **53.** Out of the following which is amphoteric oxide ?

- A.  $CO_2$
- $\mathsf{B.}\,SO_2$
- $\mathsf{C}. Na_2O$
- D.  $Al_2O_3$





**54.** Out of the following which one is mixed oxide ?

- A.  $Pb_3O_4$
- $\mathsf{B.}\,Fe_2O_3$
- $\mathsf{C}.\,PbO$

## D. FeO





# **55.** Tailing of Mercury occurs due to formation of

A. Ozonides

- B. Mercurous Oxide
- C. Mercuric Oxide
- D. None of these

#### Answer: B



# 56. Oleum is: $H_2S_2O_7$ , $H_2S_2O_6$ , $H_4S_2O_7$ , $H_3S_2O_7$ .

A.  $H_2SO_3$ 

 $\mathsf{B.}\,H_2SO_3$ 

 $\mathsf{C}.\,H_2S_2O_7$ 

 $\mathsf{D}.\,H_2S_2O_8$ 





## 57. Ozone gives brown colour with

A. Benzidine

- B. Lead acetate paper
- C. Starch Iodine Paper
- D. Tetramethyl base

Answer: A



# **58.** Which gas emitted from Supersonic jet aeroplanes dilute ozone layer ?

A.  $SO_2$ 

 $\mathsf{B}.\,NO$ 

 $\mathsf{C}.SO_3$ 

D. None

Answer: B





### 59. Mercury reacts with Ozone to give

A.  $Hg_2O_2$ 

 $\mathsf{B.}\,HgO_2$ 

 $\mathsf{C}. Hg_2O$ 

D. None

Answer: C

60. Ozone oxidizes moist Phosphorous to

A.  $H_3PO_3$ 

 $\mathsf{B.}\,H_3PO_4$ 

 $\mathsf{C}.\,H_3PO_2$ 

D. None

**Answer: B** 



61. Sulphur molecule is : diatomic, tetratomic,

triatomic, octatomic.

A. Diatomic

B. Tetra atomic

C. Tri atomic

D. Octa atomic

Answer: D

62. Which of the following has-O-O-linkage?

## A. $H_2S_2O_6$

## $\mathsf{B}.\,H_2S_2O_8$

# $\mathsf{C}.\,H_2S_2O_3$

D.  $H_2S_2O_7$ 

#### **Answer: B**



**63.** The oxo acid of Sulphur which contain a lonepair of electrons on sulphur is

. . .

A. Sulphurous Acid

B. Sulphuric Acid

C. Peroxydisulphuric acid

D. Pyrosulphuric acid

Answer: A

**64.** Bleaching action of  $SO_2$ , is due to :

A. Oxidation

**B.** Reduction

C. Acidic nature

D. Hydrolysis

Answer: B

**65.** Name the gas can readily de-colourise acidified  $KMnO_4$  solution

A.  $CO_2$ 

 $\mathsf{B.}\,NO_2$ 

 $\mathsf{C}.\,P_2O_5$ 

D.  $SO_2$ 

Answer: D

**66.** what happens when  $SO_2$  is passed through acidified  $K_2Cr_2O_7$  solution ?

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**67.**  $SO_2$  reacts with  $Cl_2$  in the presence of sunlight to form

- A. Sulphuryl Chloride
- B. Sulphonyl Chloride
- C. Sulphur Dioxide
- D. None of these.





### 68. What is Caro's Acid?

- A. Thiosulphuric Acid
- B. Dithonic acid
- C. Peroxydisulphuric acid
- D. Peroxymonosulphuric acid

Answer: D



# **69.** The transition temperature between Rhombic sulphur and monoclinic sulphur is

A. 963 K

B. 693 K

C. 369K

D. 1000 K

Answer: C





70. Fool's gold is known as

A. ZnS

B.  $FeS_2$ 

 $\mathsf{C}. Hg_2O$ 

D.  $Na_2SO_3$ 

#### **Answer: B**

**71.** Which among the following is the most reactive ?

A.  $I_2$ 

 $\mathsf{B.} Cl_2$ 

C.  $Br_2$ 

D. ICl

#### Answer: D

**72.** Which halogen forms an oxy acid that contains the halogen atom in tripositive oxidation state?

A. Fluorine

B. Chlorine

C. Bromine

D. lodine

Answer: B

**73.** Bromine vapours will turn moist starch iodide paper :

A. brown

B. red

C. blue

D. colour less

### Answer: C

**74.** Fill in the blanks- Any plant with leaves, flower, seeds used for flavouring, food, medicine or perfume is called as \_\_\_\_\_.

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**75.** Among the following which is the strongest oxidising agents:  $Br_2$ ,  $I_2$ ,  $F_2$ ,  $Cl_2$ .

A.  $I_2$ 

 $\mathsf{B.}\,Cl_2$ 

 $\mathsf{C}.\,Br_2$ 

 $\mathsf{D.}\,F_2$ 

### Answer: D



## 76. Which of the following halide is strongest

acid ?

A. HI

B. HBr
C. HCl

D. HF

Answer: A



77. Which halogen is used for the formation of

chloroform?

A. Fluorine

B. Chlorine

C. Bromine

D. lodine

Answer: B



78. Which of the following has highest value of

dipole moment ?

A. HF

B. HCl

C. HBr

D. HI

### Answer: A



## **79.** HCl at $25^{\circ}C$ is :

A. Ionic and liquid

B. Covalent and liquid

C. Ionic and gas

D. None of the above

### Answer: D

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# **80.** The formula of glucose is C6H12O6 .

Calculate its molecular mass.



81. Anomalous behavior of Fluorine is due to?

A. Small size

B. Absence of d-orbital

C. High electronegativity

D. All of the above

Answer: D

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82. Which of the following halogens can form

only -1 oxidation state ?

A. Fluorine

B. Chlorine

C. Bromine

D. lodine

Answer: A

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**83.** Fluorine has less negative electron gain enthalpy than chlorine due to:

A. Small size

B. High electro negativity

C. Absence of d-orbital

D. None of the above

Answer: A

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**84.** Fill in the blanks- A woody plant which is smaller than a tree and has several main







A.  $HCIO_4$ 

B.  $HCIO_2$ 

 $\mathsf{C}.HCIO_3$ 

D. HCIO

### Answer: A



**87.** The geometry of  $IF_3$  is:

A. Trigonal bipyramidal

B. Sea-Saw

C. T-Shape

D. Trigonal planar

Answer: A

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**88.** Give the shape of  $IF_5$ .

A. Square planar

B. Square bipyramidal

## C. T-Shape

D. Linear

Answer: B



**89.** Why ICI is more reactive than  $I_2$  ?

A. High difference in electro negativity

B. Weaker ICI bond

C. Both (a) and (b)

D. None of the above

### Answer: C

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## 90. \_\_\_\_\_ is a green coloured leaf like

structure present in the flower. It protects the

flower in bud form.

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**91.** Fill in the blanks- The plant with weak stem that cannot stand upright and spread on the ground is called\_\_\_\_\_.

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**92.** Which of the following Noble gases is radioactive:

A. Neon

B. Argon

C. Xenon

D. Radon

Answer: D



93. Why elements of Group 18 are less reactive

or inert?

A. Small size

B. R are Availability

## C. Stable Electronic configuration

D. None

## Answer: C



# 94. Why electron gain enthalpies of noble

gases are positive ?

A. Negative

**B.** Positive

C. Zero

D. Zero or Positive.

#### Answer: D



## 95. Which of the following noble gases has

highest boiling point :

A. He

B. Ne

C. Xe

D. Ar

### Answer: C



**96.** Which reaction prompted N. Bartlett to prepare first noble gas compound? Which was the compound ?

A. 
$$XeO_3$$

## $\mathsf{B.} XePtF_6$

## $\mathsf{C}.KrF_2$

D.  $XeF_2$ 

## Answer: B

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**97.** The plants whose stems are very weak and that cannot stand upright and spread on the ground are called-

A. shrubs

B. creepers

C. herbs

D. trees

Answer: A

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**98.** Give hybridization and draw structure of  $XeF_4$ .

- A. Tetrahedral
- B. Square Planar
- C. Square Pyramidal
- D. Trigonal Bipyramidal

Answer: B

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**99.** Hybridisation of Xenon in  $XeF_6$  molecule

A.  $sp^3d^3$ 

 $\mathsf{B.}\, sp^3$ 

 $\mathsf{C.}\, sp^3d^2$ 

D.  $sp^3d$ 

Answer: A

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100. Which of the following noble gases form

maximum compounds :

A. Neon

B. Argon

C. Radon

D. Xenon

Answer: D

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P Block Group 16 Oxygen Family 1 Mark Questions

**1.** Draw the structure of  $H_2S_2O_3$ .



### Answer:



**3.** The process in which extra water comes out of the leaves in the form of water vapours is called\_\_\_\_\_.

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4. Name one oxoacid of S and draw its

structure.



6. Name the third element of the 16th group.

Also write its atomic number.

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8. Write the chemical equations when: Sugar

reacts with conc.  $H_2SO_4$ .

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**9.** Draw the structure of  $H_2S_2O_3$ .





12. How will ozone oxidise the following : Lead

sulphide to lead sulphate

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# 13. Arrange $H_2O, H_2S, H_2Se$ and $H_2Te$ in

## order of their boiling points ?





**16.** Which mineral of sulphur is known as fool's

gold ?



P Block Group 17 Halogen Family 1 Mark Questions

1. \_\_\_\_\_ is the part of the plant that helps

to attract insects for pollination.

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**2.** What is the atomicity of the following : calcium oxide

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3. Write the formulas of water . Also name the

elements presents in them.





6. Why HF is a weak acid ?

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7. Name the second element of  $17^{th}$  group.

Also write atomic number?



**8.** What are inter halogen compound ? Give preparation of CIF.



**9.** Draw the structure of  $H_3PO_3$ .



P Block Elements Group 18 Noble Gases 1 Mark Questions





**3.** Why noble gases are inert or inactive ?

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**4.** Draw the structure of `XeF2 Write its hybridisation?



**5.** Give hybridization and draw structure of  $XeF_4$ .

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P Block Group 16 Oxygen Family 2 Or 5 Mark Questions

**1.** Why does the oxygen show anomalous behaviour in its group ?



## **3.** Why is dioxygen gas but sulphur a solid?



**6.** Sulphur show +4 and +6 oxidation stae in their compounds but oxygen can not show

these oxidation states.

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7.  $H_2S$  is a gas while  $H_2O$  is liquid at room

temperature·? Why ?

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**8.** Why  $SF_6$  is known but  $SH_6$  is not known ?

**9.** Explain that  $SO_2$  can act as an oxidising agent as well as a reducing agent, but  $SO_3$  can act as an oxidising agent only.



**10.** How would you account for the following :

Sulphur has a great tendency for catenation

than oxygen.



**11.** Oxygen gas is inert at room temperature

why?



**12.** Comment on nature of two S-O bond formed in  $SO_2$  molecule. Are the two S-O bonds in this molecule equal ?



**13.** Why  $SF_6$  is known but  $OF_6$  is not known



14. Elements of Group 16 generally show lower

value of first ionisation enthalpy compared to

the corresponding periods of group 15. Why?



**15.** Oxygen gas is inert at room temperature why? Watch Video Solution **16.** Milk to cheese is an example of change. Watch Video Solution

**17.** What is the use of ozone layer?



**20.** Why conc. sulphuric acid is always diluted by adding sulphuric acid to water with constant stirring and not water to the acid ?



**21.** Explain the reducing character of 16th group.

**22.** What is the shape of ozone molecule ?



23. Sulphur hexafluoride is used as a gaseous

electrical insulator. Explain.

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**24.** Discuss the favourble conditions for the manufacture of sulphur trioxide from Sulphur



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**26.** Why does  $O_3$  act as a powerful oxidising

agent?



27. Explain the manufacture of sulphuric acid

by contact process.



#### 28. How will ozone oxidise the following :

Potassium nitrite to potassium nitrate.

29. Draw Flow Chart diagram of ContactProcess.

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P Block Group 17 Halogen Family 2 Or 5 Mark Questions

**1.** What are freons ?

2. Why fluorine shows-1 oxidation state only whereas other halogens show variable oxidation states ?

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**3.** With what neutral molecule is  $CIO^-$ 

isoelectronic? Is that molecule a Lewis base?

**4.** Account for the following: Among the halogens  $F_2$  is the strongest oxidising agent.

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5. Account for the following: Why the acid strengths of halogen acids increase in the order: HF < HCl < Hl?

6. Why does fluoriue show anomalous behaviour in its group ?
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**7.**  $SF_6$  is known but  $SCl_6$  is not known. Explain.



8. Why are halogens coloured ?



#### **10.** Why ICI is more reactive than $I_2$ ?



**11.** HF has higher boiling point than HCI.



**14.** Draw the structure of  $HCIO_3$ ?



**16.** Explain the following :

Iodine is more soluble in KI solution than in

water.



**17.** What are pseudohalogens ? Give example.



**18.** Give three examples of pseudohalide ions.



**19.** Halogens have maximum negative electron gain enthalpy in the respective periods of the



**22.** Write two uses of  $ClO_2$ .



**23.** Fill in the blanks- The habitat of the plants

and animals that live in water is called \_\_\_\_

habitat.



**24.** Draw the structure of  $ICI_4^-$ 



# P Block Elements Group 18 Noble Gases 2 Or 5 Mark Questions

**1.** Why do noble gases form compounds with fluorine and oxygen ?







**6.** Draw the structure of  $XeO_3$ . Write its state

of hybridisation ?



8. Draw the structure of  $XeO_2F_2$  with

hybridisation ?

9. Among noble gases, only Xe is known to

form chemical compounds. Why?

<b>O</b> Watch Video Solution

10. Why do noble gases form compounds with

fluorine and oxygen?

**11.** What inspried N. Bartlett for carrying out reaction between Xe and  $PtF_6$ ? Write the reaction also.



#### 12. Write two use of Helium.



**13.** Write two use of Neon ?



16. Write two uses of Radon?



# 17. Noble gases have low boiling points.Explain.