



Mahila Vikas Sanstha's

**INDRAPRASTHA NEW ARTS
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QUESTION BANK

PAPER I (INORGANIC CHEMISTRY)

2021-2022

UNIT I

Q.1 oxidation state of boron is.....

- a)+2 b)+5 c)+3 d)0

Q.2 electronegativity of carbon is....

- a)2.5 b)5 c)0 d)3

Q.3 which one of the following is alkali metal?

- A)calcium b)cesium c)barium d)carbon

Q.4 $\text{H}_2\text{S}_2\text{O}_8$ is.....

- a) Hyphosphoric acid
b) Caro's acid
c) Marshall's acid
d) Acetic acid

Q.5 pyrophosphoric acid is.....

- a) Tribasic acid
b) Monobasic acid
c) Dibasic acid
d) Tetrabasic acid

Q.6 From left to right , electronegativity.....

- a) increases
- b) decreases
- c) remains constant
- d) none

Q.7 The azimuthal quantum number specifies

- a) Size of orbitals
- b) Shape of orbitals
- c) Orientation of orbitals
- d) Nuclear stability

Q.8 bond length of C=C is

- a) 154 pm
- b) 134 pm
- c) 120 pm
- d) 90 pm

Q.9 which of the following contain trigonal planar geometry?

- a) CH₄
- b) SF₆
- c) BF₃
- d) PCl₅

Q.10 how many lone pairs are present in H₂O ?

- a) 1
- b) 2
- c) 3
- d) 4

b) UNIT II

Q.11 "in an atom no two electrons can have all the four quantum number same"

- a) Hund's rule
- b) Aufbau principle
- c) Pauli exclusion principle
- d) Heisenberg uncertainty principle

Q.12 from top to bottom atomic radius

- a) increases
- b) decreases
- c) remains constant
- d) none

Q.13 the rate of reaction of organic compound is slow due to

- a) ionic bonding
- b) amphoteric nature
- c) covalent bonding
- d) coordinate covalent bonding

Q.14 boiling point of hydrides of group 16 are in the order

- a) $\text{H}_2\text{O} > \text{H}_2\text{Te} > \text{H}_2\text{S} > \text{H}_2\text{Se}$
- b) $\text{H}_2\text{O} > \text{H}_2\text{S} > \text{H}_2\text{Se} > \text{H}_2\text{Te}$
- c) $\text{H}_2\text{O} < \text{H}_2\text{Te} < \text{H}_2\text{S} < \text{H}_2\text{Se}$
- d) none

Q.15 Partial hydrolysis of XeF_4 gives

- a) XeO_3
- b) XeOF_2
- c) XeOF_4
- d) XeF_2

Q.16 collectively the elements of group 15 are called

- a) pnictogen
- b) pnictogens
- c) nicopen
- d) none

Q.17 which of the following elements is most metallic ?

- a) P b) As c) Sb d) Bi

Q.18 which one has the lowest boiling point ?

- a) NH_3 b) PH_3 c) AsH_3 d) SbH_3

Q.19 which is strongest acid in the following

a) HClO_4 b) H_2SO_3 c) H_2SO_4 d) HClO_3

Q.20 among the following which is strongest oxidizing agent

a) Br_2 b) I_2 c) Cl_2 d) F_2

UNIT III

Q.21 potassium metal can be stored under

a) benzene b) kerosene c) alcohol d) toluene

Q.22 alkaline earth metals belong to the

a) s-blocks b) p-blocks c) d-blocks d) f-blocks

Q.23 which of the following does not form stable diatomic molecules

a) iodine b) phosphorus c) nitrogen d) oxygen

Q.24 chemical formula for phosphorus molecule is

a) P b) P_4 c) P_2 d) P_5

Q.25 which of the following is most electronegative

a) O b) S c) Te d) Se

Q.26 number of unpaired electrons in sulphur is

a) 2 b) 6 c) 8 d) 1

Q.27 which of the following is weakest acid

a) HF b) HCl c) HBr d) HI

Q.28 mark the smallest atom

a) F b) Cl c) Br d) I

Q.29 last member of inert gas element is

a) helium b) neon c) argon d) radon

Q.30 gradual addition of electronic shells in noble gases causes a decrease in their

a) ionization energy b) atomic radius c) boiling point d) density

UNIT IV

Q.31 helium is used in balloons in place of hydrogen because it is

- a)radioactive b)more abundant than hydrogen
c)incombustible d)lighter than hydrogen

Q.32 which is the most easily liquefiable rare gas

- a)Ar b)Ne c)Xe d)Kr

Q.33 which of the following noble gas does not have an octet of electrons in its outermost shell

- a)Neon b) radon c)argon d) helium

Q.34 fluorine forms chemical compounds with

- a)He b)Ne c)Ar d)Xe

Q.35 which of the following is monoatomic

- a)nitrogen b)fluorine c)neon d)krypton

Q.36 Give the answer of following statement in one word/sentence

Distance of outermost electron from center of nucleus is called as....

Q.37 Give the answer of following statement in one word/sentence

Electronegativity of lithium is.....

Q.38 Give the answer of following statement in one word/sentence

How many orbitals present in d subshell.....

Q.39 Give the answer of following statement in one word/sentence

How many lone pair present in NH_3

Q.40 Give the answer of following statement in one word/sentence

Geometry of H₂O is.....