

Time:3:00hrs

Que:1 Choose the correct answer :—

5

1. Dry ice (solid CO_2) is a/an : [ionic crystal, covalent crystal, molecular, metallic crystal]
2. Best conductor of electricity is : [diamond, graphite, silicon, metallic crystal,]
3. Which of the following is ferromagnetic : [calcium metal, iron metal, sodium conductor, zinc metal]
4. Fe, Co, Ni, are magnetic substance of which type : [paramagnetic, Ferromagnetic, diamagnetic, anti-ferromagnetic]

5) NaCl str. is formed by (Fcc, cubic lattice str, simple cubic str. BCC

Que:2 Fill in the blanks :—

1. Due to schottky defect the density of crystal _____
2. Colloidal solution of solid in liquid is called _____
3. Blood is a _____ charged colloid.
4. _____ is a radioactive inert gas.
5. Correct formula of colored is _____

Que:3 Match the following :—

- | | |
|---------------------|------------------------|
| Gold sol | - Hard schulze rule' |
| Gold number | - vander waal's force. |
| Coagulation power | - lyophilic colloid |
| Physical adsorption | - molybdenum |
| Catalyst promoter | - lyophobic colloid. |

Que:4 Answer in one word / sentence :—

5

1. Give two examples of covalent crystal.
2. Chlorine is discovered by.
3. Which type of solid is Sic.
4. Give the name of radio active halogen
5. Write the oxidation state of F.

Que:5 What is emulsion ?

“Or” Noble gases are mono atomic ?

2

Que:6 HF is liquid while other hydrides of halogens are gases at normal temperature why ?
Noble gases are inert why ?

“Or”

2

Que:7 What is tyndall effect ?

“Or” What is colloidal solution ?

2

Que:8 What is peplization explain ?

“Or”

2

Fluorine is strong oxidizing agent as compared to chlorine why ?

Que:9 What is Raoull's law ? establish its mathematical expression ?

“Or”

3

Write 4 difference in solution having deviation and Negative deviation ?

Que:10 What do you understand by van't Hoff's factor ? write its importance ?

“Or”

3

What is molal freezing point depression constant ? show that depression in freezing point is a colligative property ?

Que:11 What is lanthanide contraction ? what is the reason of this contraction ?

“Or”

3

Why do transition metals generally form coloured ions ?

Que:12 Write differences between lanthanide and actinide ?

act
“Or”

3

Why do transitional metals possess the ability to form complex compounds ?

Que:13 Difference between molecularity and order of reaction ?

“Or”

4

Derive an expression for half life period for first order reaction ?

Que:14 Write preparation method of CuSO_4 . Write the effect of heat on crystallising hydrated blue vitral ?

"Or"

4

Explain simen-martine open hearth process for the manufacture of steel ?

Que:15 Give the laboratory method for the preparation of chloroform . Describe the formation of chloroform by ethanol with labeled diagram equation and principle ?

"Or"

4

Write short notes on : i) Hunsdiecker method, ii) Raqschig process, iii) Frankland reaction, iv) carbylamines reaction .

Que:16 Ethyl alcohol and phenol both contain OH group. What is reason that phenol is acidic and alcohol has alkaline effect ?

"Or"

4

Give chemical equation of the following conversion :-- i) Diethyl ether from ethanol, ii) Ethanol from diethyl ether, iii) Ethyl acetate from ethanol, iv) Ethanol from glucose.

Que:17 Describe the laboratory method of preparation of ^{acetone} acetone . Draw labeled diagram and write down chemical equation ?

"Or"

4

What happens when i) acetylene reacts with water in the presence of HgSO_4 and H_2SO_4 , ii) Phenylaldehyde react with anhydride, iii) acetyl chloride to acetaldehyde iv) Oxidation of formaldehyde. <https://www.mpboardonline.com>

Que:18 i) What is standard hydrogen electrode ? How is it prepared ?

ii) Write short note on : i) specific conductivity, ii) molar conductance.

"Or"

5

What is Kohlrausch law ? give its two applications ?

Que:19 Explain contact process for the manufacture of sulphuric acid under the following heading :

"Or"

5

- i) Draw labeled diagram of laboratory method of phosphine and give chemical equation.
ii) Explain hydride of oxygen family on the following points : i) name and formula, ii) reducing properties, iii) acidic properties.

Que:20 Write note on the following :-- Kanad, Charak, Nalanda Jushwa-wdyataye.

"Or"

5

- i) Write short note on the following : safed musaly, insect repellent
ii) Write the name of active ingredients and the medicinal uses of the following medicinal plants :
i) neem, ii) ashwagandha, iii) tulsi.

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