

Pre Board Examination 2016 - 2017
Subject - Chemistry
Class : XII 'A'

M.M. 75

Time:3:00 hrs

Que:1 Choose the correct option :---

5

1. Cell constant is : [Δl , l/Δ , $l\Delta$, $e \frac{l}{a}$]
2. Gelatine is mostly used in making ice-creams in order to :
[prevent forming a colloidal solution, enrich the fragrance, prevent crystallization and stabilize the mixture, modify the test]
3. Which of following is the strongest oxidizing agent : [F_2 , Cl_2 , I_2 , O_2]
4. Vitamin B_{12} is : [rebaflavin, cobalamine, thiamine, pyrimidenc,]
5. Which of following has strongest basic character : [$C_6H_5NH_2$, $(CH_3)_2NH$, $(CH_3)_3N$, NH_3]

Que:2 Fill in the blanks :---

5

1. Substance which are attracted in magnetic field are called _____
2. Protein is a polymer of _____
3. The product of mustard oil reaction is _____
4. The process of adding small amount of impurities in an element or compound is called _____
5. At ordinary temperature bromine is _____

Que:3 Answer in one word / sentence :---

5

1. Give the name of reaction in which oxidation and reduction occur simultaneously.
2. Cleansing action of soap based on which principle ?
3. Write the name of Noble gas which is used in treatment of cancer. *Radon*
4. Secondary amine can be identified by ?
5. Which type of structure has crystal NaCl ?

Que:4 Match the following :---

- | | |
|-------------------|---------------------------|
| E.D.T.A | - $C_6H_5N_2Cl$ |
| Diazonium salt | - test of alcohol |
| Liebermann's test | - blood clotting |
| Fibrinogen | - Iodine |
| Gaiteer | - Hexadenate ¹ |

Que:5 What is colloidal solution ? "Or" What is cataphoresis ?

2

Que:6 Write any two uses of helium gas ?
Flurine is more active then other halogen explain why ?

"Or" 2

Que:7 What is coordination number and ligand give one example ?
Write the IUPAC name of the following compound : [$Cu(NH_3)_4$] SO_4 , $K_2[HgI_4]$

"Or" 2

Que:8 What are enzymes give application .
Write the functions of following vitamins : Vitamin A, Vitamin D,

"Or" 2

Que:9 What do you understand by van't hoff factor ? write its importance ?
What is Raaults law ? establish its mathematical expression ?

"Or" 3

Que:10 Explain in brief Berkey and Hartley's method of osmotic pressure measurement and state its uses ?
If 2 gm NaOH is present in 250ml solution then determine the normality of the solution ?

"Or" 3

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- Que:11 Write main characteristics of transitional elements ? "Or" 3
Explain Cu^+ is colourless while Cu^{2+} is coloured
- Que:12 What is lanthanid contraction ? what is the reason of this contraction and what are its consequences ? "Or" 3
Why do transition metals exhibit variable oxidation states ?
- Que:13 Differentiate molecularity and order of reaction ? "Or" 4
Write four differences between Rate of reaction and rate constant ?
- Que:14 Give the chemical reaction when CuSO_4 solution react with : "Or" 4
 NaOH solution, NH_4OH , KI solution, KClO_4 ,
What are the main ores of Al ? how can impure aluminium is purified ?
- Que:15 Write short notes on : carbylamines reaction, Hunsdicker method, "Or" 4
Explain the nucleophilic substitution reaction in alkyl halide by SN^1 and SN^2 mechanism.
- Que:16 Differentiate primary, secondary and tertiary alcohol by oxidation and dehydrogenations method ? "Or" 5
What is Williamson continuous etherification process ? is it a continuous process explain give labeled diagram ?
- Que:17 How will you obtain : Benzoic acid from toluene, formic acid from acetic acid, Acetaldehyde from acetylene, propanones from propylene, "Or" 5
Describe the laboratory method of preparation of acetone : Draw labeled diagram and write down chemical equations ?
- Que:18 Describe dry cell with labeled diagram : "Or" 5
Explain equivalent conductance and molar conductance
- Que:19 Write formula and structures of five acids of phosphorus 5
- Que:20 Write about following : Kanak, Antacid, Antiseptic, "Or" 5
Write about various medicinal plant and their uses in different disease ?
