

**THE BALAGAT PUBLIC SCHOOL BALAGHAT**  
**PRE BOARD EXAMINATION 2021**  
**SUBJECT - CHEMISTRY**  
**CLASS-12<sup>TH</sup>**

M.M. -70

TIME - 3Hrs

**NOTE-(1) Attempt all questions .**

**(2) Q.No. 1 to 4 are of 5 marks , 5 to 14 are of 2 marks,  
15 to 19 are of 3 marks and 20 to 22 are of 5 marks.**

**Question-1 Multiple choice:-**

- 1 Good conductor of electricity is:-  
(i) Dimond (ii) Graphite (iii) Silicon (iv) carbon
- 2 The correct example of frankel defect is:-  
(i) NaCl (ii) CsCl (iii) KCl (iv) Agcl
- 3 Reason For stability of lyophobic sol is :-  
(i) Brownian movement (iii) Tyndall effect  
(ii) Electric charge (iv) Brownian movement and electric charge
- 4 Sweetest sugar is:-  
(i) Glucose (ii) Fructose (iii) sucrose (iv) Lactose
- 5 The Isocyanides test is given by:-  
(i) 1° amine (ii) Phenol (iii) 2° amine (iv) 3° amine

**Question-2 Fill in the Blanks :-**

- 1 Unit of first order reaction is -----.
- 2 The element having highest electron affinity is -----.
- 3 General electronic configuration of inner transition element is -----.
- 4 EDTA is ----- ligand.
- 5 Milk is an -----.

**Question-3 Write Answer in one word/sentence.**

1. Which type of structure has crystal NaCl ?
2. Which type of solid is SiC ?
3. Write Arrhenius equation.
4. Write the example of Double salt.
5. Name the vitamin which is synthesized in sunlight ?

**Question-4 Match the column :-**

- | A                  | B  |
|--------------------|--|
| 1 Vitamin C        | 1 Radisactive                                      |
| 2 Hinsberg reagent | 2 CaOCl <sub>2</sub>                               |
| 3 Noble gas        | 3 C <sub>6</sub> H <sub>5</sub> SO <sub>2</sub> Cl |
| 4 Bleaching powder | 4 Ascorbic acid                                    |
| 5 Actinide         | 5 Group 18   |

**Question-5 What is van't Hoff factor ?**

OR What is abnormal molecular mass ?

Question-6 Write difference between peptisation and coagulation ? OR What is Tyndall effect?

Question-7 Write IUPAC name of following .

(1)  $\text{Ni}(\text{CO})_4$                       2  $\text{K}_4[\text{Fe}(\text{CN})_6]$

OR What is chelate ? give example .

Question-8 Write the structure of  $[\text{Ni}(\text{CN})_4]^{-2}$ .

OR Write the example of Ionization Isomerism ?

Question-9 What is Lucas Reagent ?

OR Phenol is acidic but alcohol is neutral .Why?

Question-10 Write Kolbe Schmidt reaction.

OR How will you obtain Cumene by phenol?

Question-11 Formic acid is more acidic than acetic acid. Why?

OR How will you prepare Urotropin ?

Question-12 Write Rosenmund Reaction.

OR Write Benzoin condensation .

Question-13 Direct nitration of aniline is not possible . Why?

OR Write mustered oil reaction .

Question-14 Secondary amine is more basic than primary and tertiary amine .Why?

OR Write Hoffmann mustered oil reaction.

Question-15 Write Roul't's law with mathematical derivation .

OR Write difference between ideal and non ideal solution .

Question-16 Write difference between molecularity and order pf reaction.

OR Prove that Half life period of first order reaction is independent of initial concentration .

Question\_17 What is Lanthanide contraction ?Write it with reason and consequences.

OR Write difference between Lanthanide and Actinide.

Question-18 Write difference between primary ,secondary , and tertiary alcohol by victor Meyer process.

OR How will you obtain following by Phenol?

- (i) Phenolphthalein      (ii) Benzene      (iii) Picric acid

**Question -19** Write difference between DNA and RNA.  
OR What is denaturation of protein ? give example .

**Question -20** Explain Kohlrausch's law with application .  
OR What is corrosion ? Write electrochemical theory with prevention of corrosion .

**Question-21** Write following reaction ;-

- (i) Carbylamine
- (ii) Reimer Tiemann reaction
- (iii) Laboratory process of chloroform

OR (i) Haloarene is less reactive than Haloalkane .Why?  
(ii) How will you obtain following .  
(a) D.D.T.      (b) B.H.C.

**Question-22** Write Ostwald method with the help of following point:-

- (i) Labelled digram
- (ii) Chemical equation
- (iii) Principle

OR Explain Haber process by the following point-

- (i) Labelled digram
- (ii) Principle
- (iii) Chemical equation.

=====X=====

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