

1st TERM EXAMINATION 2022-23
CLASS- XII
SUBJECT- Chemistry

TIME: 3hrs

Marks- 70

Instruction:-

- (1) All questions are compulsory.
- (2) Q. No. 1 to 4 objective type questions each question carries 7 marks.
- (3) Q.No.5 to 12 , each question carries 2 marks.
- (4) Q.No.13 to 16 , each question carries 3 marks.
- (5) Q.No.17 , carry 4 marks.
- (6) Q.No.18 and 19 , carries 5 marks each.
- (7) Internal choice is given in each question from 5 to 19.

Q.1 : choose the correct option :-

(1x7=7)

- (1) Among the following substances the lowest vapour pressure is exerted by-
(a) water (b) alcohol (c) ether (d) Mercury
- (2) Fara day's law of electrolysis is related to-
(a) Atomic no. of cation (b) Speed of cation
(c) Speed of anion (d) Equivalent wt of electrolyte
- (3) If the rate of a reaction is expressed by, $\text{rate} = K[A]^2[B]$, the order of reaction will be -
(a) 2 (b) 3 (c) 1 (d) 0
- (4) For a unimolecular reaction molecularity is-
(a) 1 (b) 2 (c) 4 (d) none of these
- (5) Which of the following reactions follows Markonikov's rule?
(a) $\text{CH}_2 = \text{CH}_2 + \text{HBr}$ (b) $\text{CH}_3 - \text{CH} = \text{CH}_2 + \text{Cl}_2$
(c) $\text{CH}_3 - \text{CH} = \text{CH}_2 + \text{HBr}$ (d) $\text{CH}_3 - \text{CH} = \text{CH}_2 + \text{Br}_2$
- (6) Which of the following is phenol?
(a) Cresol (b) Catechol (c) Benzenol (d) All of these
- (7) The genral formula of carbohydrate is :-
(a) $\text{C}_n\text{H}_{2n+1}\text{O}$ (b) $\text{C}_n\text{H}_2n\text{O}$ (c) $\text{C}_x(\text{H}_2\text{O})_y$ (d) $\text{C}_n(\text{H}_2\text{O})_{2n}$

Q.2 Fill in the blanks :-

(1x7=7)

- 1- Vitamin is found in Amla.
- 2- In Bakelite..... is combine with phenol.
- 3- The mixture of and is used as antifreeze agent in car radiator.

- 4- If the mobility of ions increase then conductance.....
 5- On increasing the temperature by 10°C the reaction rate become.....
 6- The enzyme convert protein into amino acid.
 7- The correct reactivity order of alkyl halide in SN^1 is

Q.3 Match the following : (1x7=7)

	'A'		'B'
1-	Oxidation	(a)	anesthetic
2-	$X_A + X_B = 1$	(b)	Blood clotting
3-	Vitamin K	(c)	Anode
4-	Ether	(d)	Coagulation
5-	egg	(e)	Binary Solution.
6-	Kappa	(f)	Lindane
7-	666	(g)	Specific Conductance

Q.4 Answer in one word. (1x7=7)

- 1- Write one example for non-ideal solution?
 2- Write cell representation for Daniel cell ?
 3- What is Arrhenius Equation?
 4- Write full form of DDT?
 5- What is oil of winter green?
 6- What is Absolute alcohol?
 7- Write an example of Lwittor ion?

Q.5 Define Henry's Law? (2)

OR

2.5 g of NaOH dissolved in 250 ml of solution find morality?

Q.6 Define Raoult's Law? (2)

OR

Define Azeotropes with 1 example?

Q.7 Write an two method of prevention from corrosion? (2)

OR

Define Conductivity?

Q.8 Define instantaneous rate of reaction ? (2)

OR

A Radioactive decay of an atomic nucleus Ra, is a first order reaction. Its half life period is 1590 years, calculate its rate constant K?

Q.9 Define Equivalent conductance ? (2)

OR

Define molar conductance?

- Q.10 Define Reverse Osmosis? (2)
OR
Explain Van't Hoff factor?
- Q.11 Write note on DDT? (2)
OR
Write any 2 difference between SN^1 & SN^2 reaction.
- Q.12 Define Denaturation of protein? (2)
OR
Define peptide linkage with example?
- Q.13 Write any 3 difference between ideal and non ideal solution? (3)
OR
Derive mathematically, expression for elevation in boiling point?
- Q.14 Write any 3 difference between molecularity and order of reaction. (3)
OR
Derive mathematically, expression for Zero order reaction?
- Q.15 Give any 3 difference between alcohol and phenol. (3)
OR
Why Phenol is acidic and alcohol is neutral in nature give reason?
- Q.16 Give 3 difference between DNA & RNA. (3)
OR
Give the sources and disease due to deficiency of following vitamins
(1) Vitamin B
(2) Vitamin C
(3) Vitamin K
- Q.17 (1) Explain with reaction Saytzeff's Rule. (4)
(2) Explain the reactivity order of alkyl halide in SN^1 & SN^2 reactions. <https://www.mpboardonline.com>
OR
Explain electrophilic Substitution in chlorobenzene.
- Q.18 Explain Kahlrausch law ? Write its two applications? (5)
OR
Explain standard hydrogen Electrode (S.H.E.) with diagram and cell reaction?
- Q.19 Give Equation:- (5)
(a) Picric acid from phenol
(b) Aspirin from salicylic acid.
(c) Salicyaldehyde from phenol

- (d) Gattermann reaction.
(e) Kolbe Schmidt reaction.

OR

Explain identification of 1^o, 2^o and 3^o alcohols with victor meyer's method.

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