

SARALA BIRLA PUBLIC SCHOOL

Mahilong, Ranchi.

Revision Test (CHEMISTRY)

Class – XII



1. If the initial concentration of reactant is doubled, $t_{1/2}$ is also doubled, the order of reaction is
a) zero b) 1 c) 2 d) 3

Note : In the following question a statement of assertion followed by a statement of reason is given. Choose the correct answer out of the following choices (Q. 2)

- a) Assertion and reason both are correct and reason is correct explanation of assertion
b) Assertion and reason both are wrong statement
c) Assertion is correct but reason is wrong statement
d) Assertion is wrong but reason is correct statement
e) Assertion and reason both are correct statements but reason is not correct explanation of assertion
2. **Assertion:** An ordinary filter paper impregnated with colloid solution stops the follow of colloidal particles
Reason: Pore size of the filter paper becomes more than the size of colloidal particles
3. Phenol reacts with dilute HNO_3 to give _____ as major product.
4. _____ and _____ are monomers of glyptal.
5. Benzaldehyde can be distinguished from Propanal by _____ test.
6. Match the following

Column I	Column II
a) Benzene sulphonyl chloride	i) Zwitter ion
b) Sulphanilic acid	ii) Hinsberg reagent.
c) Alkyl diazonium salts	iii) Dyes
d) Aryl diazonium salts	iv) Conversion to alcohols

7. What happens when n-Butyl chloride is treated with aqueous KOH ?
8. A person suffering from high blood pressure should take less common salt, why ?
9. What are the products of hydrolysis of Maltose ?
10. What happens when Formaldehyde reacts with acetaldehyde in presence of alkali?
11. a) Write the reaction of Glucose with HNO_3 .
b) What are essential amino acids? Give one example

12. a) Write step and conditions involved in the conversion of
 i) Benzamide to Aniline ii) Ethanoic acid to Methyl amine
13. Illustrate the following reactions giving suitable example in each case:
 a) Carbyl amine reaction b) Diazotisation reaction c) Cannizaro's reaction
14. Write cathode reaction, anodic reaction and net reaction while discharging in a lead storage battery.
15. a) What is meant by Pseudo first order reaction.
 b) Calculate the molarity of 9.8%(w/w) solution of H_2SO_4 if the density of the solution is 1.02 g ml^{-1} . (Molar mass of $\text{H}_2\text{SO}_4 = 98\text{ g mol}^{-1}$)
 c) What is Van't Hoff factor? What possible values can it have if the solute molecules undergo association?