

XII-STD CHEMISTRY - ORGANIC 2,3 AND 5 MARKS PROBLEMS (New syllabus)

1. The organic compound A M. formula is C_2H_6O is used as power alcohol it react with H_2SO_4 Give the compound B formula is C_2H_4 . This compound C Undergoes oxidation by Bayer's reagent give C formula of the compound C is $C_2H_6O_2$ it is used as Antifreeze car radiator. Find out A,B,C and write the equation.
2. The organic compound A M. formula is C_2H_4 react with P/I_3 give B. it is unstable again it give A. the compound A is oxidized bayer's reagent to give C find out the A,B,C and write correct Equation
3. The organic compound is alcohol A M. formula is C_3H_6O is reduced by $LiAlH_4$ give B. The Compound B is react with Lucas reagent ($ZnCl_2/HCl$) . give slow turbidity of C. find out A,B,C.
4. The organic compound contain Two alcoholic group react with Nitration mixture form B. The compound A is heated 773 K form C. Find out A,B,C and write the equation.
5. The Compound A is used as antifreeze in automobile radiator is heated with dil. H_2SO_4 or $ZnCl_2$. Give B m. formula is C_2H_4O . it give answer to tollen's reagent. Two molecules of A react with con H_2SO_4 Give C m. formula is $C_4H_8O_2$ out A,B,C and write the equation.
6. The organic compound A is sweetening agent it undergoes Dehydration form B. the compound A undergo nitration give C. Find out A,B,C and write the equation.
7. The primary alcohol is oxidized by Nicotinamide adenine dinucleotide (NAD) give B formula is C_2H_4O . It give positive test for fehling's and tollen's reagent. The compound B is oxidized by $Na_2Cr_2O_7$ give compound C formula is $C_2H_4O_2$. find out Find out A,B,C and write the equation.
8. The Aromatic alcohol A m. formula is C_6H_6O by using Zn give B is simple aromatic compound. The compound is Oxidised by $Cr_2O_2Cl_2$ give C. formula is C_7H_8O . Find out A,B,C and write the equation.
9. The organic compound A M. formula is C_6H_6O react with Base (NH_3) give amine is B. The compound B is react with $NaNO_2/HCl$ to give C. the compound C is Hydrolysis gives the compound A. Find out A,B,C and write the equation.
10. The Simple aromatic compound A is oil of mirbane is reduced by Acid medium give B. the A reduced by neutral medium give C and D. The Compound A is reduced by alkaline medium, give D and E Find out A,B,C,D,E and write the equation. (NV)
11. The compound A is used as a car fuel is treated with Cl_2 give compound B is insecticide. A reduced By Sn/HCl gives C. the compound A is reduced by Zn/NH_4Cl gives D. Find out A,B,C,D and write the equation. (nv)
12. The compound A used as a Fuel additive it undergoes hydrolysis give B M. formula is C_2H_6O . B The isomer of Compound A is reduced by Sn/HCl give C. both B and C give answer for victor mayer test. Find out A,B,C and write the equation.
13. The compound formula is C_2H_3N reduced by Na (Hg) and C_2H_5OH give compound B. The Isomer of A is reduced by Na (Hg) and C_2H_5OH give compound B. Find out A,B,C and write the equation.

14. the organic compound formula is $C_6H_5N_2Cl$ react with Cuprous Chloride give B and A react with cuprous bromide give C and compound A react with cuprous cyanide give D Find out A,B,C .D and write the equation.
15. The compound A used as table vinegar it is halogenated Give compound B. Two molecule of A give C by using P_2O_5 . Find out A,B,C and write the equation.
16. The organic compound formula A is C_7H_8 undergoes oxidation by $KMnO_4$ give compound B. the compound A is oxidizes by CrO_2Cl_2 gives C .Find out A,B,C and write the equation.
17. The Compound is sodium salt of acid undergoes decarboxylation give B. The compound B undergoes nitration by HNO_3/H_2SO_4 give C .Two molecule of A undergoes Electrolysis give D. Find out A,B,C ,D and write the equation.
18. Two molecule of Aromatic Aldehyde A react with Alcoholic KCN give compound B. The one molecule of A react with Primary amine to give C. Find out A,B,C and write the equation. (Nv)
19. The simple aromatic aldehyde react with C_2H_4O give compound B is unsaturated compound. The compound A react with aliphatic aldehyde .40% this aldehyde used for preserve biological specimen give C Find out A,B,C and write the equation.(nv)
20. The Two molecule of Aromatic aldehyde undergoes Disproportionation Give B and C. Find out A,B,C and write the equation. Write its mechanism
21. The carbonyl compound A. is reduced by Zn/Hg and $Con HCl$ give B. B undergoes nitration Give C 73% is and D is 27 % Find out A,B,C D and write the equation.
22. The organic compound formula A is C_2H_4O reduce by tollens and fehling solution . A react with methanol and HCl to give Compound B is $C_4H_{10}O_2$. The compound A react with methanol in the presence of $Dil NaOH$ to give Compound C is $C_3H_6O_2$. Find out A,B,C and write the equation.(PTA question)
23. An organic compound A is $C_3H_8O_3$ uses as Sweetening agent. which on oxidation with Fentons reagent give a mixture of compound B and C Find out A,B,C and write the equation.
24. The Aliphatic nitro compound A used as fuel additive A under goes reduction give Compound B. B on treatment with $CHCl_3$ and Alcoholic KOH give C. The compound C on Catalytic reduction give N methyl aniline. Find out A,B,C and write the equation. (PTA question)
25. A ether $C_5H_{12}O$ When is heated with excess of Hot HI produce two alkyl Halide .which on Hydrolysis form compound B and C. Oxidation B gives an acid D. Where as oxidation of C give Ketone E . Find out A,B,C,D and write the equation (PTA question)
26. The Nitro compound A is undergo nitration A 373K Give B .The compound A is nitration at 473K give C Find out A,B,C and write the equation.

27. The Simplest aromatic hydrocarbon A using nitrating mixture give B. B is Oil of mirbane. B reduced by weak acid medium give C. The A reduce by strong Acid medium give D Find out A,B,C D and write the equation .

28. The Simple Aromatic Hydrocarbon A formula is C_6H_6O it undergoes oxidation by $K_2Cr_2O_7$ /Con H_2SO_4 give B . A is reduced by Ni metal at $160^\circ C$ Give C. Find out A,B,C and write the equation .

29. The organic compound A used as Power alcohol react with H_2SO_4 Give B. The Compound B is oxidized by Bayers reagent Give C. Find out A,B,C and write the equation .

30. A Isomers Alkene A, and B have same M. formula C_3H_4 . A under go ozonolysis Give B and C . the compound Both B and C oxidized give D . D will turn the Blue litmus to red . Find out A,B,C D and write the equation .

31. An organic compound C_3H_4 hydration Hg^{+2}/H_2SO_4 give B positive Iodoform test. The compound heated with Zn/Hg/Con HCl give C. Find out A,B,C and write the equation .

32. The aromatic nitro compound A used as lubricating oil A on reduce by Sn/HCl give compound B

M. formula is C_6H_7N which on treatment with Benzoyl Chloride in the presence of Pyridine to give

compound C . two molecules of A react with CS_2 give D it si give test for primary amine Identify A to D. write the correct equation. (nv)

33. An organic compound M. Formula A M. formula C_2H_6O is Heated with Con H_2SO_4 at 443 K Give an unsaturated hydrocarbon C_2H_4 , B. which on treatment with Bayers reagent to give Compound C is $C_2H_6O_2$ it is used as Antifreeze in automobile radiator. The compound C treated with Con H_2SO_4 to give cyclic compound D is $C_4H_8O_2$. Identify A to E. write the correct equation...

35. The compound A m. formula is C_2H_3N is used as Solvent in perfume industry it under go Partial Hydrolysis Give B. The compound A undergoes Complete Hydrolysis give C . Find out A,B,C and Write the correct equation.

36. The aromatic nitro compound used as Lubricating oil in motor A react with Chloroform and alcoholic KOH it produce B. give carbylamines The compound A is undergoes nitration Give C,D,E .

Find out A,B,C ,D,E. Write the correct equation.

37.The organic nitro compound A is under go reduction by Sn /HCl give B. the compound B is undergoes bromination give White Precipitate compound C . Find out A,B,C and Write the correct equation.

38.The organic compound A used for preparing TNB,TNT is reduce by SnCl_2/KOH give B,C the compound B,and C undergoes self Condensation give C Find out A,B,C and Write the correct equation.

39.The compound A is used as table vinegar it react with Base give compound B . The compound B is react with caustic alkali and Bromine. Give compound C is carrying one carbon less than compound B. Find out A,B,C and Write the correct equation.

40. The compound A is used as Fruit essences. The two molecule of A undergo self condensation in the presence of Base Find out A,B, and Write the correct equation.

Hints:- C_2H_4 -Ethene . $\text{C}_2\text{H}_6\text{O}_2$ -Ethylene glycol . $\text{C}_2\text{H}_4\text{O}$ -Ethanol . $\text{C}_2\text{H}_4\text{O}$ -Ethanal(Acetaldehyde). $\text{C}_3\text{H}_8\text{O}_3$ - Glycerol . $\text{C}_6\text{H}_6\text{O}$ - Phenol . $\text{C}_6\text{H}_7\text{N}$ -Aniline . $\text{C}_7\text{H}_8\text{O}$ -Anisole . $\text{C}_2\text{H}_6\text{O}$ -Benzaldehyde . CH_2O -Formaldehyde . $\text{C}_2\text{H}_3\text{N}$ - methylcyanide. $\text{C}_2\text{H}_4\text{O}_2$ -Acetic acid . $\text{C}_3\text{H}_6\text{O}$ -Acetone . $\text{C}_2\text{H}_4\text{O}$ -Acetaldehyde.

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life is **CHEMISTRY** dilute your Sorrow Evaporate your Worries ,Filter your Mistake ,

Boil your Ego “ You will get the Crystal of **HAPPINESS** ”