

BRAIN INTERNATIONAL SCHOOL

TERM-II

CLASS-XI

2018-19

SUB:- CHEMISTRY REVISION SHEET

Q1.Explain the following terms:(i)BOD (ii)Smog (iii)Depletion of ozone.

Q2.Which gases are responsible for greenhouse effect?

Q3.What do you mean by green chemistry?

Q4.How will you convert the following compounds into benzene?

(i) Ethyne (ii) Ethene (iii) Hexene

Q5.State the Huckle rule.

Q6.Give a brief account of Kolbe's electrolysis for preparation of alkane.

Q7.How will you carry out controlled hydrogenation of alkynes?

Q8.Explain Lassaigne's Test for nitrogen and halogens.

Q9.How will you carry out quantitative analysis for Sulphur and halogens?

Q10.Define (i)Nucleophiles(ii)Free radicals(iii)Hyperconjugation

Q11.NH₂-group present at benzene is ortho-para directing for electrophilic aromatic substitution explain.

Q12.Describe the action of heat on borax.

Q13Give the structure of diborane.

Q14.What is allotropy?Name the allotropes of carbon.

Q15.When an alkali metal dissolves in liquid ammonia, the solution acquires different colours. Explain the reasons for this type of colour change.

Q16.Why Li₂CO₃ decompose at lower temperature whereas Na₂CO₃ at higher temperature?

Q17.Discuss the principle and method of softening of hard water by synthetic ion exchange method.

Q18.What is chemical is the chemical formula of permutit.

Q19.Write the functions of salt bridge.

Q20.The solubility product of AgCrO₄ at 300k is 4×10^{-12} . Find out its solubility at this temperature.

- Q21. Calculate the concentration of hydronium ion in 0.005M solution of barium hydroxide at 300K, assuming hydroxide completely ionized in the solution.
- Q22. Explain the buffer solution with example.
- Q23. State and explain Hess's law of constant heat summation.
- Q24. Explain the entropy and spontaneity.
- Q25. In terms of Charles' law explain why -273°C is lowest possible temperature.
- Q26. Why does ethyl alcohol have lower boiling point than water?
- Q27. The molecule SO_2 has a dipole moment. Is the molecule linear or bent?
- Q28. Explain the H-bonding.
- Q29. What do you mean by electron affinity?
- Q30. Ionic radii of alkaline metals are smaller than those of its atoms. Why?
- Q31. What is Zeeman effect?
- Q32. Explain Heisenberg uncertainty principle.
- Q33. Write the Redberg's formula. Write meaning of different terms.
- Q34. What is law of definite proportions?
- Q35. Define limiting reagent. Explain with suitable example.