

List of compiled 1st PUC Chemistry Important Questions

1. a) State Charles' law.
b) Give the relationship between molecular mass and density of a gas.
2. Differentiate between the reactions of Li and Na on burning them in oxygen. Give equations
3. How is 'ozone layer' formed in the stratosphere? Name a chief chemical that causes its depletion.
4. (a) Mention two conditions for the linear combination of atomic orbitals.
(b) Draw the shapes of BMO and ABMO formed by the combination of 1s and 1s atomic orbitals
5. Explain with equations the production of dihydrogen by coal gasification and water gas shift reaction.
6. Write any three postulates of kinetic theory of gases.
7. What is Intensive property of a system? Pick out the intensive property from mass, internal energy, density & volume.
8. State Hess's law of constant heat summation.
9. Write Gibbs equation. Using G, how do you decide whether a reaction at a given temperature is spontaneous or non spontaneous?
10. Give the principle and the formula involved in the estimation of sulphur by Carius method?
11. How is benzene prepared from ethyne? Explain the mechanism of nitration of benzene
12. Give any two reasons for the anomalous behaviour of berillium
13. Discuss any 3 uses of aluminium
14. Give any 3 postulates of VSEPR theory
15. Distinguish between sigma and pi bonds
16. How is orthoboric acid prepared from borax?
17. How to synthesize organosilicon polymers?
18. State Avogadro's law. Write the mathematical representation of the law.

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IMPORTANT QUESTIONS

19. (a) How is the estimation of halogens done by carius method?
(b) Explain the inductive effect with an example
20. Define (a) specific heat capacity
(b) Enthalpy of Vapourization

