

India's Number 1 Education App

CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

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1. Name two adverse effects caused by acid

rains.





4. What is inert pair effect ?



7. Calculate kinetic energy of 5 moles of Nitrogen at $27^{\circ}C$.

8. Calculate the oxidation number in $Cr_2O_7^{-2}$

ion on chromium (Cr) atom.

9. What is Plaster of Paris? Write a short note

on it.



10. Give the formula of borazine . What is its

common name?





1. Write the postulates of kinetic Molecular

Theory of Gases.



2. A compound contains 4.07% hydrogen, 24.27% carbon and 71.65% chlorine. Its molar mass is 98.96 g. What are its empirical and molecular formulas ?

3. a) State the third law of thermodynamics. B)

Define entropy.



4. Explain the concept of Bronsted acids and Bronsted bases. Illustrate the answer with suitable examples.



5. Explain, with suitable examples, the following:

(iii) Electron-rich hydrides.



6. Explain the differences in properties of diamond and graphite on the basis of their structures.



7. Explain Wurtz reaction and Friedel- Crafts

alkylation with examples.



8. What is polymerization? Explain with one example.



1. Write the postulates of Bohr's model of hydrogen atom. What are the limitations of Bohr's model of an atom ?

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2. Explain the significance of 'n' and 'l' quantum

numbers.

3. What is hybridization? Explain sp, ${\it sp}^2$ and

 sp^3 hybridizations with one example each .

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4. Define IE_1 and IE_2 . Why is $IE_2 > IE_1$ for a given atom? Discuss the factors than effect IE of an element.