

India's Number 1 Education App

CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

TS MARCH-2019 I.P.E. PAPER



1. What is Biochemical Oxygen Demand (BOD)?

2. What is a Bronsted base? Give one example.



5. A solution is prepared by adding 2 g of a substance A to 18 g of water. Calculate the mass per cent of the solute.

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6. Mention the important uses of Mg metals.





10. Write IUPAC names of the following structures : $CH_2 = CH - CH = CH_2$ Watch Video Solution

11. Write IUPAC names of the following structures : CH_3 | $CH_3 - C = CH - CH_3$

1. Derive ideal gas equation.

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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. State and explain the Hess's law of constant

heat summation.

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4. Derive the relation between K_p and K_c for

the equilibrium reaction.

 $N_2(g)+3H_2(g) \Leftrightarrow 2NH_3(g)$

5. Explain the terms hard water and soft water.

Write a note on the

(ii) Calgon method for the removal of

hardness of water.

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6. Explain Borax bead test with suitable example.

7. Explain the hybridisation involved is SF_6 .





1. How are the quantam numbers n, l and m arrived at ? Explain the significance of these quantam numbers.



2. 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.

3. Write any two methods of preparation of benzene with corresponsing equations. How methyl benzene and acetophenone are prepared from benzene?