



CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 6

Section A

1. What are the harmful effects of global warming? What activities you are going to

follow to reduce these effects at your school, house, village level?



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2. Define the terms 'Receptor' and 'Sink'.



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3. Write the effect of temperature of surface tension and viscosity. Give reason to that .



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4. Calculate the oxidation number of 'Cr' in $K_2Cr_2O_2$.



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5. Define ionic product of water. What is the value at room temperature?



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6. What is Plaster of Paris? Write a short note on it.



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7. Write any four uses of CO_2 gas.



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8. Why are alkali metals not found in the free state in nature?



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9. Graphite is a good conductor - explain.



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10. Why are the type of hybridization of each carbon in the following compound?



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Section B

1. State and explain Graham's law of Diffusion.



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2. A carbon compound contains 12.8% Carbon, 2.1% Hydrogen, 85.1% Bromine. The molecular weight of the compound is 187.9. Calculate the molecular formula.



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3. Explain different types of hydrogen bonds with examples.



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4. State and explain the Hess's law of constant heat summation.



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5. What are homogenous and heterogenous equilibria? Give two example of each .



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6. Write are four uses of dihydrogen(H_2).



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7. Explain the structure of diborane.



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8. Define the dipole moment. Why the BF_3 molecule dipole moment is zero?



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Section C

1. What are the postulates of Bohr's model of hydrogen atom ? Discuss the importance of

this model to explain various series of line spectra in hydrogen atom.



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2. How are the elements divided into s, p, d and f – blocks in the Modern periodic table ?



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3. Write the following reactions with equations.

- a) Wurtz reaction
- b) Polymerization of ethylene
- c) Addition of water to acetylene
- d) Nitration of benzene.



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