



CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

AP MARCH-2018 I.P.E. PAPER

Section A

1. Name two adverse effects caused by acid rains.



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



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3. What is surface tension?



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4. 2g of $NaOH$ is dissolved in water to give 1 litre solution. What is the pH of the solution?



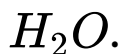
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5. Write the conjugate acid and conjugate base of each of the following:



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6. Write the conjugate acid and conjugate base of each of the following:





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7. Give the biological importance of Na^+ and K^+ ions.



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



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9. Why is carbon monoxide poisonous ?



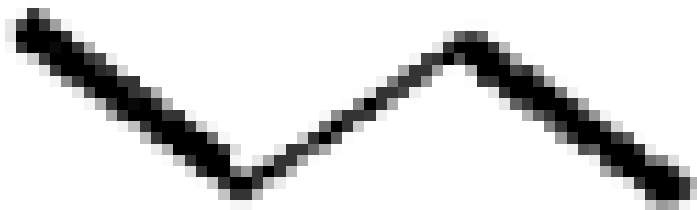
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10. How is water gas prepared?



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11. Write IUPAC names of the following compounds.



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12. Write IUPAC names of the following compounds :



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Section B

1. Explain different types of hydrogen bonds with examples.



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2. What is Hybridization ? Explain the structure of CH_4 on the basis of Hybridization.



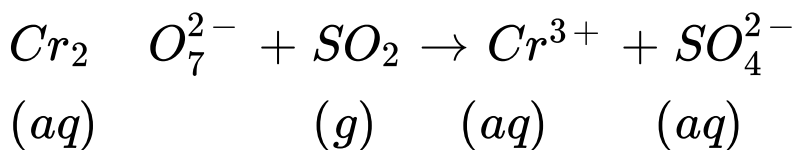
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3. 360cm^3 of CH_4 gas diffused through a porous membrane in 15 minutes. Under similar conditions, 120cm^3 of another gas diffused in 10 minutes. Find the molar mass of the gas.



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4. Balance the following Redox reaction by ion-electron method in acidic medium.



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



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6. Discuss the application of LE Chatellier's principle for the industrial synthesis of Ammonia and sulphur trioxide.



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7. 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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8. Explain Borax bead test with suitable example.



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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. What is a periodic property? How the following properties vary in a group and in a period? Explain

(a) IP.



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3. What is a periodic property? How the following properties vary in a group and in a

period? Explain

(b) EN.



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4. What is periodic property? How the following properties vary in a group and in a period? Explain.

Metallic character.



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5. Describe two methods of preparation of Benzene. Explain Halogenation and Alkylation reactions of Benzene.



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