



CHEMISTRY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

MARCH - 2016 (TELANGANA)

Section A

1. Define TLV .



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2. Why is carbon monoxide poisonous ?



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3. Write the preparation of plaster of Paris.



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4. State and explain law of mass action.



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5. What is disproportionation reaction ?



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6. Why is KO_2 paramagnetic?



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7. Calculate the ratio of kinetic energies of 3g of hydrogen and 4g of oxygen at an given

temperature.



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8. How is Ozone layer depleted in the atmosphere and what are the harmful effects caused by Ozone layer depletion ?



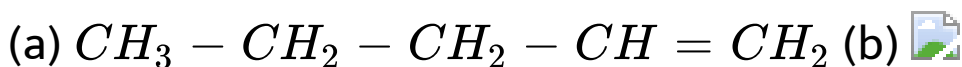
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9. Write any two uses of zeolites .



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10. Write IUPAC names of the following compounds :



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Section B

1. Derive ideal gas equation.



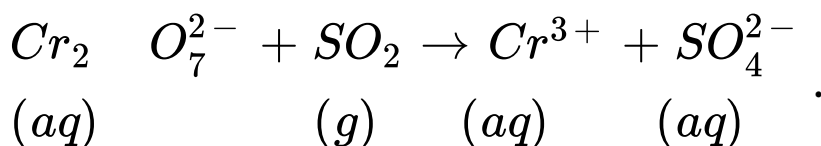
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2. Explain hybridisation of phosphorous in the formation of PCl_5



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



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4. Write two oxidizing and two reducing properties of H_2O_2 .



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5. Explain borax bead test with a suitable example



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6. State the third law of thermodynamics.



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7. Explain different types of hydrogen bonds with examples.



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8. Explain the term Hydrolysis of salts with examples. Discuss the pH of the following types of salt solutions.

(i) Salts of weak acid and strong base.

(ii) Salts of strong acid and weak base.



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Section C

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



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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.



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3. How does acetylene react with the following reagents? Give the corresponding equations and name the product formed in the reactions?

Water



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