



# CHEMISTRY

## BOOKS - VIKRAM PUBLICATION ( ANDHRA PUBLICATION)

### TELANGANA MARCH-2019

#### Section A

1. What are isotonic solutions ?



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2. What is galvanic cell ? Give one example.



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3. Give the composition of the Brass.



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4. Give the composition of the Bronze.



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5. What is Lanthanoid contraction ?



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6. What is Ziegler-Natta catalyst ?



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7. What is vulcanization of rubber ?



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8. How Grignard reagent is prepared ?



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9. Write equation for carbhlamine reaction .



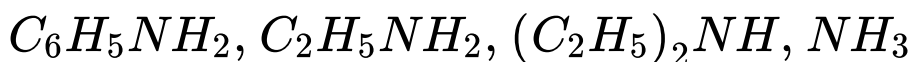
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10. What are Enantiomers ?



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11. Arrange the following in decreasing order of their basic strength :



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## Section B

1. Calculate the molarity of a solution containing 5g of Sodium Hydroxide (NaOH) in

450 ml solution.



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2. Derive Bragg's equation .



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3. What is difference between physisorption and chemisorption ?



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4. Explain roasting and calcination.



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5. How is nitric acid manufactured by Ostwald's process ?



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6. Write the IUPAC names of

$[Co(NH_3)_4(H_2O)Cl]Cl_2$  co-ordination

compounds.



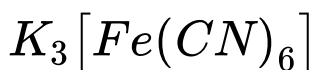
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7. Write the IUPAC names of  $[Ni(CO)_4]$  coordination compounds.



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8. Write the IUPAC names of the follow Coordination compounds.







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9. Write the IUPAC names of  $[Cr(NH_3)_3(H_2O)_3]Cl_3$  co-ordination compounds.



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10. What are Hormones ? Give one example for steroid hormones and polypeptide hormones.



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11. Write notes on Antiseptics and Antibiotics.

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## Section C

1. How is chlorine prepared by Deacon's process ? Explain its reactions with Hot Conc. NaOH,  $H_2S$  and  $Na_2S_2O_3$ .

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2. Give a detailed account of the Collision theory of reaction rates of bimolecular reaction.



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3. With a suitable example write equations for the Kolbe's reaction.



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4. With a suitable example write equations for the Reimer-Tiemann reaction



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5. With a suitable example write equations for the Williamson's ether synthesis



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6. Describe the Cannizaro reaction



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