



CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER 7

Section A

1. State Henry's law.



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2. What are pseudo first order reactions ? Give one example.



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3. What is the role of cryolite in the metallurgy of aluminium?



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4. A mixture of Ca_3P_2 and CaC_2 is used in making Holme's signal - Explain.



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5. Explain the structure of XeO_3 .



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6. Aqueous Cu^{2+} ions are blue in colour, where as Aqueous Zn^{2+} ions are colourless.

Why ?



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7. What are antacids? Give example.



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8. What are artificial sweetening agents? Give example.



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9. What are ambident nucleophiles ?



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10. What are Enantiomers ?



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Section B

1. Derive Bragg's equation .



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2. Calculate the mole fraction of H_2SO_4 in a solution containing 98 % H_2SO_4 by mass.



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3. What is catalysis ? How is catalysis classified ? Give two examples for each type of catalysis.



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4. Give examples to differentiate roasting and calcination.



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5. Explain ionic bond with suitable example.



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6. Write the names and structures of the monomers of the following polymers.

i)Buna -S ii)Buna -N iii) Dacron iv)Neoprene



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7. What are Hormones ? Give one example for each.

i) Steroid Hormones

ii) Polypeptide Hormones

iii) Amino Acid derivatives.



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10. How do you prepare Ethyl cyanide and Ethyl isocyanide from a common alkylhalide ?



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Section C

1. State and explain Kohlrausch's law of independent migration of ions.



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2. What is "molecularity" of a reaction ? How is it different from the 'order' of a reaction? Name one bimolecular and one trimolecular gaseous reactions.



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3. How is ozone prepared ? How does it react with the following ?

PbS



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4. How is ozone prepared ? How does it react with the following ?

KI



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5. How is ozone prepared ? How does it react with the following ?

Hg



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6. How is ozone prepared ? How does it react with the following ?

Ag



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7. How can you prepare Cl_2 from HCl and HCl from Cl_2 ? Write the reactions.



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8. Write the equations involved in the following reactions:

(i) Reimer - Tiemann reaction (ii) Kolbe's reaction



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9. Explain the following reactions.

Williamson's Ether Synthesis Aldol condensation



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10. Discuss aldol condensation.



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11. Describe the Decarboxylation .





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