



# CHEMISTRY

**BOOKS - VGS PUBLICATION-BRILLIANT**

## MODEL PAPER 8

### Section A

1. What is PHBV ? How is it useful to man ?



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2. Write the name and structure of the monomers used for getting the following polymer

Bakelite



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3. Write the names of monomers of the following polymers:

Terylene



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4. Define osmotic pressure.



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5. State Faraday's first law of electrolysis.



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6. What is poling?



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7. A mixture of  $\text{Ca}_3\text{P}_2$  and  $\text{CaC}_2$  is used in making Holme's signal - Explain.



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8. In modern diving apparatus, a mixture of He and  $\text{O}_2$  is used - Why?



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9. Calculate the magnetic moment of a divalent ion in aqueous solution if its atomic number is 25



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10. What are artificial sweetening agents? Give example.



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**11.** What are antibiotics? Give example.



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## Section B

**1.** Derive Bragg's equation .



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2. The vapour pressure of pure benzene at a certain temperature is 0.850 bar. A non-volatile, non-electrolyte solid weighing 0.5g when added to 39.0 g of benzene (molar mass  $78 \text{ g mol}^{-1}$ ), vapour pressure of the solution, then, is 0.845 bar. What is the molar mass of the solid substance ?



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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. What is Misch metal ? Given its composition and use.



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6. What is an ambidentate ligand ? Give example.



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7. Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D (c) E and (d) K



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8. What are Enantiomers ?



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9. What is racemisation ?



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**10.** Name reactions :

Carbylamine reaction.



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**11.** Explain the following name reactions :

Sandmeyer reaction



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## Section C

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



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2. How is chlorine prepared by electrolytic method ? Explain its reaction with NaOH



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3. How is chlorine prepared by electrolytic method ? Explain its reaction with

NaOH



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

PbS



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

KI



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

Hg



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7. How does ozone react with the following:

NO



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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 synthesis



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**10.** Describe the following:

Cannizaro reaction



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**11. Describe the following:**

Dehydrogenation of alcohols



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