



# CHEMISTRY

**BOOKS - VGS PUBLICATION-BRILLIANT**

## MODEL PAPER 5

### Section A

1. What is Ebullioscopic constant ?



**Watch Video Solution**

2. What is a galvanic cell or a voltaic cell ? Give one example.



[Watch Video Solution](#)

3. Why  $Zn^{2+}$  is diamagnetic whereas  $Mn^{2+}$  is paramagnetic ?



[Watch Video Solution](#)

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



**Watch Video Solution**

**5. What is vulcanization of rubber ?**



**Watch Video Solution**

**6. What is matte? Give its Composition.**



**Watch Video Solution**

7. Give an example of  
acidic oxide of phosphorus



**Watch Video Solution**

8. Give an example of  
neutral oxide of nitrogen.



**Watch Video Solution**

**9.** What is tailing of mercury? How is it removed ?



**Watch Video Solution**

**10.** What are antacids? Give example.



**Watch Video Solution**

**11.** What are artificial sweetening agents? Give example.



[Watch Video Solution](#)

## Section B

1. What are n-type and p-type semiconductors?



[Watch Video Solution](#)

2. Calculate molality of 2.5 of ethanoic acid ( $CH_3COOH$ ) in 75g of benzene.



[Watch Video Solution](#)

3. Explain the structure of TMV.



Watch Video Solution

4. Explain Werner's theory. Give the Werner's structures of

$CoCl_3 \cdot 6NH_3$ ,  $CoCl_3 \cdot 5NH_3$ ,  $CoCl_3 \cdot 4NH_3$

and  $CoCl_3 \cdot 3NH_3$ .



Watch Video Solution

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



**Watch Video Solution**

6. Explain froth flotation process with neat diagram.



**Watch Video Solution**



7. Explain Tyndall effect and Brownian movement.



[Watch Video Solution](#)

8. Explain  $sp^2$  hybridization with an example.



[Watch Video Solution](#)

**Section C**

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



[Watch Video Solution](#)

2. Explain the reactions of  $Cl_2$  with NaOH.



[Watch Video Solution](#)

3. Explain the reactions of  $Cl_2$  with NaOH.



Watch Video Solution

4. How is chlorine obtained in the laboratory ?

How does it react with the following ?

excess  $NH_3$



Watch Video Solution

5. Name Reactions :

Kolbe's reaction



Watch Video Solution

6. Write the equations involved in the following reactions:

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

**8.** Explain the terms aerosol with suitable examples.



**Watch Video Solution**