

India's Number 1 Education App

CHEMISTRY

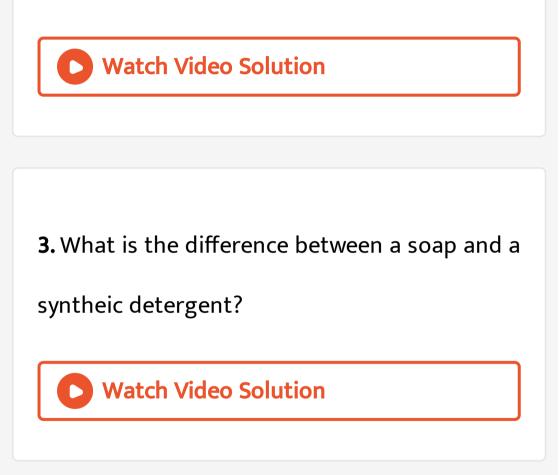
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MODEL PAPER 4



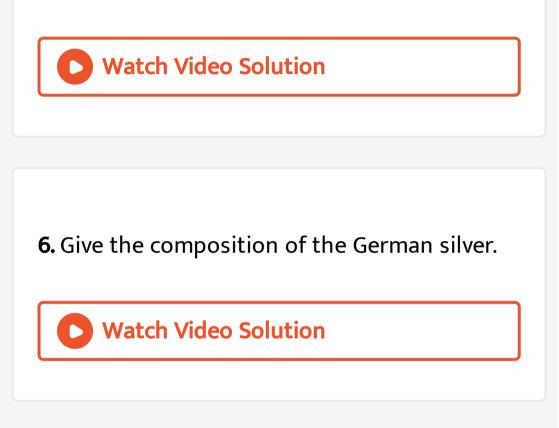
1. Define osmotic pressure.

2. What are antibiotics? Give example.



4. State Faraday's first law of electrolysis.

5. Give the composition of the Brass.



7. List out the uses of Neon.

8. Explain the structures of

 XeF_4



9. Why Zn^{2+} is diamagnetic whereas Mn^{2+} is

paramagnetic?

10. What is biodegradable polymer? Give one

example of a biodegradable polyesster ?

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

Bakelite

12. What are the constituent monomers in the

following polymers? Write their uses.

(a) Nylon 6,6 and (b) Terylene.



Section B

1. What is the formula of carnallite?

2. Explain the purification of sulphide ore by

Froth Floatation Method.



3. 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 g mol⁻¹), vapour pressure of the solution, then, is 0.845 bar. What is the molar mass of the solid substance ?



4. Describe the purification of colloidal solution by the phenomenon of dialysis with a neat diagram.

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5. Write equations for the reaction of acetic

acid with reagent :

NaOH





6. How is chlorine obtained in the laboratory ?

How does it react with the following ?

excess NH_3

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7. Write the equations for reactions of chlorine

with the following :

 $Ca(OH)_2$

8. How is chlorine prepared in the laboratory ?

How does it react with the following ?

 $Na_2S_2O_3$

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9. Explain the applications of Co-ordination

compounds in different fields.

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

- i) Steroid Hormones
- ii) Polypeptide Hormones
- iii) Amino Acid derivatives.

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11. What are Hormones ? Give one example for

steroid hormones and polypeptide hormones.

12. What are Hormones ? Give one example for

each.

- i) Steroid Hormones
- ii) Polypeptide Hormones
- iii) Amino Acid derivatives.

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13. Explain sp^2 hybridization with an example.

1. What are galvanic cells ? Explain the woriking of a galvanic cell with a neat sketch taking Denicell cell as example.

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2. Write the difference between Order and Molecularity of a reaction.

3. How is ammonia manufactured by Haber's process ? Explain the reactions of ammonia with

 $\operatorname{AgCl}_{(s)}$

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4. How is ozone prepared ? How does it react

with the following ?

PbS



5. How is chlorine obtained in the laboratory ?How does it react with the following ?

ΚI



6. How does ozone react with Ethylene ?

7. How does ozone react with the following:

NO

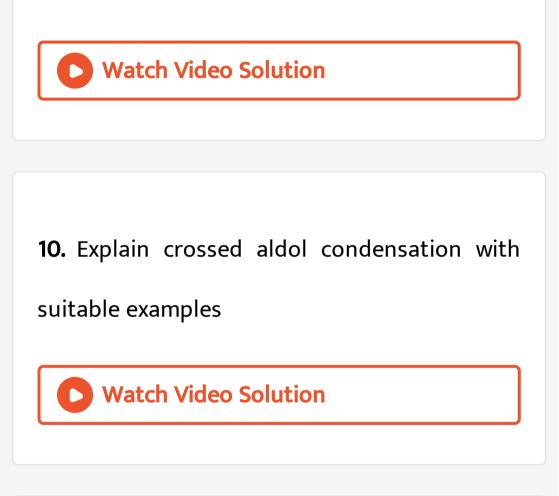


8. Write the equations involved in the following reactions:

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

reaction

9. Describe the Cannizaro reaction



11. Explain the following name reactions :

Sandmeyer reaction



