

SURAJ SCHOOL

REWARI

A vibrant graphic for a holiday homework announcement. The central focus is a large, rounded wooden sign with the text 'Holiday Homework' in a bold, red, outlined font. The sign is surrounded by various holiday-themed and educational icons: a glowing lightbulb, a beach umbrella, a beach ball, sunglasses, flip-flops, starfish, and tropical leaves. Educational icons like a DNA helix, a microscope, a calculator, and a globe are also scattered around. The background is white with faint, repeating icons of school-related items like books, a pencil, and a magnifying glass.

Holiday Homework

प्रकाशमय कल के लिए

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Class 12th, Chemistry

Q.1 Write the preparation of alkyl halide from alcohol?

Q.2 Define Markoniknov's rule and anti Markoniknov rule .

Q.3 Draw the isomers of $\text{Pt}(\text{NH}_3)_2\text{Cl}_2$.

Q.4 Do all the questions given in the picture

Long Answer

1. Discuss the factors on which magnitude of octahedral splitting depend.

Or

How is the magnitude of Δ_0 affected by (i) nature of ligand and (ii) oxidation state of metal ion ?

2. For the complex $[\text{Fe}(\text{en})_2\text{Cl}_2]\text{Cl}$, identify the following :

- (i) Oxidation number of iron
- (ii) Hybrid orbitals and shape of the complex
- (iii) Magnetic behaviour of the complex
- (iv) Number of its geometrical isomers
- (v) Whether there may be optical isomer also
- (vi) Name of the complex.

3. Write IUPAC name and hybridization of the following complexes :

(i) $\text{Ni}(\text{CO})_4$	(ii) $[\text{NiCl}_4]^{2-}$
(iii) $[\text{Ni}(\text{CN})_4]^{2-}$	(iv) $[\text{CoF}_6]^{3-}$
(v) $[\text{Co}(\text{NH}_3)_6]^{3+}$	(vi) $[\text{Fe}(\text{H}_2\text{O})_6]^{2+}$

(C.B.S.E. All India 2020)

Q.5 Draw the splitting diagram of d orbital in crystal field theory.

Q.6 Why transition compounds show colours.

Q.7 Write down the preparation of KMnO_4 and $\text{K}_2\text{Cr}_2\text{O}_7$ and also discuss their chemical properties.

Q.8 What is lanthanoid contraction ?

Q.9 why transition elements show variable oxidation state ?

Q.10 what is difference between ideal and non ideal solution?

Q.11 what is difference between positive and negative deviation?

Q.12 Define Raoult's law ?

Q.13 Define colligative properties.

Q.14 What is difference between order and molecularity of the reaction ?

Q.15 Define first order rxn and half life period