

Raiganj Surendranath Mahavidyalaya

Chemistry Practical Exam (Inorganic)

Part II (Honours) , Paper – VIII

Date-30.12.2020

Full Marks- 60

Time-5 hrs

(A) Answer all the questions

Each question carries 5 marks

10X5=50

1. Why is ZnO yellow when hot, white when cold? Discuss briefly.
 2. What is Nessler's Reagent? Write the formula of the compound it forms with NH_3 . Write use of Nessler Reagent.
 3. What is the chemical formula of BROWN RING? write the chemical equation of BROWN RING TEST of NO_3^- .
 4. Why does HgCl_2 turn black in contact with hot NH_3 . Write with corresponding equation.
- Which one of PbCl_2 , Hg_2Cl_2 and AgCl is soluble in water?
5. Write some examples of Interfering Acid Radicals. Write the chemical equations of fluoride test.
 6. Cd^{2+} is detected in presence of Cu^{2+} by adding KCN and the passing H_2S – what is the chemistry behind it?

7. How can you distinguish between NaCl and Na_2SO_4 ? Explain with corresponding equations.

8. Why is conc. HCl used in the flame test? Write the formula of Ni – DMG. What type of complex is it? what is Soda Lime ?

9. What is Chelate Complex? Give examples.

10. The acid concentration should be adjusted to 0.3 (N) before passing H_2S for precipitating Group II metals sulphides – why?

(B) VIVA

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