

MAR THOMA RESIDENTIAL SCHOOL TIRUVALLA

Class – XII

FIRST ASSESSMENT EXAMINATION

CHEMISTRY.

Time – 30 min

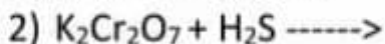
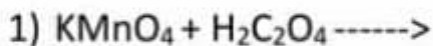
PART -2.

Mark - 20

QUESTION – 1

[2]

Complete and balance the equation.



QUESTION – 2

[3]

Answer the following

- 1) Zn^{2+} salts are white but Cu^{2+} salts are blue. Justify
- 2) Transition metals form complexes readily. Why?
- 3) $\text{La}(\text{OH})_3$ is more basic than $\text{Lu}(\text{OH})_3$. Why?

QUESTION – 3

[5]

Convert

- 1) Ethanol to propanol
- 2) Ethyl bromide to propanamine
- 3) Aniline to bromobenzene
- 4) Phenol to nitrobenzene

QUESTION – 4**[3]**

Write the balanced equation and name the reaction

- 1) Sodium phenoxide heated with CO_2 at 400K and 6 -7 atm pressure followed by hydrolysis.
- 2) Aniline heated with iodoform and alcoholic potassium hydroxide.

QUESTION – 5**[2]**

Give a chemical test to distinguish between

- 1) Ethanol and diethylether
- 2) Phenol and chlorobenzene

QUESTION – 6**[5]**

Propan -1-ol on reaction with concentrated H_2SO_4 at 170°C gives [A] which on treatment with H_3PO_4 and benzene gives [B]. [B] on oxidation followed by hydrolysis gives [C] and [D]. [C] on treatment with Br_2 with water gives white precipitate of [E], while [D] answers to iodoform test. Identify A to E with balance chemical equations.
