

Chemical Properties of Alkaline Earth Metals

Nurture: Course on Inorganic Chemistry for Class 11

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1 CM

Problems and Solutions in
**INORGANIC
CHEMISTRY**
for **JEE** Main and
Advanced

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a Cengage Exam Crack Series® product, is designed to help aspiring engineers focus on the subject of Inorganic Chemistry from two standpoints:

1. To develop their caliber, aptitude, and attitude for the engineering field and profession.
2. To strengthen their grasp and understanding of the concepts of the subjects of study and their applicability at the grassroots level.

An array of solved exercises will expose the students to the variety and nature of questions that they can expect to face in JEE. The coverage and features of this book make it highly useful for all those preparing for JEE and aspiring to become engineers.

Key Features

- Includes questions and problems from previous years' JEE papers, which will help students understand the pattern of the questions asked in the examination
- Features all types of problems asked in JEE (Main & Advanced):
 - Single Correct Answer Type
 - Multiple Correct Answers Type
 - Comprehension Type
 - Assertion-Reasoning Type
 - Matching Column Type
 - Integer Answer Type
 - Archives (up to JEE Main Jan 2019 & JEE Advanced 2018 Questions)
- Provides hints and solutions to exercises and problems

Other Books on Chemistry


Problems and Solutions in Organic Chemistry
for JEE (Main & Advanced)
Surendra K. Mishra



Vishal Joshi

Director, Co-Founder and HOD of Inorganic Chemistry at Nucleus Education, Kota – is the author of this book. He is a famous name in the field of Inorganic Chemistry and is also the mentor of Chitraang Murdia (AIR 1, JEE Advanced 2014). Various JEE aspirants under his mentorship have ranked under top 20 in JEE across different years. He is also the mentor of Kshitiz Garg who won gold medal for India in International Chemistry Olympiad.

I have been actively involved in the proofreading of this book and believe that it will give ample practice for all topics in Inorganic Chemistry for IITJEE. Joshi Sir's (VJ Sir) teaching methodology relies on making concepts logical which can be inherently seen in this book.


Chitraang Murdia
(AIR 1, IIT-JEE Advanced 2014)

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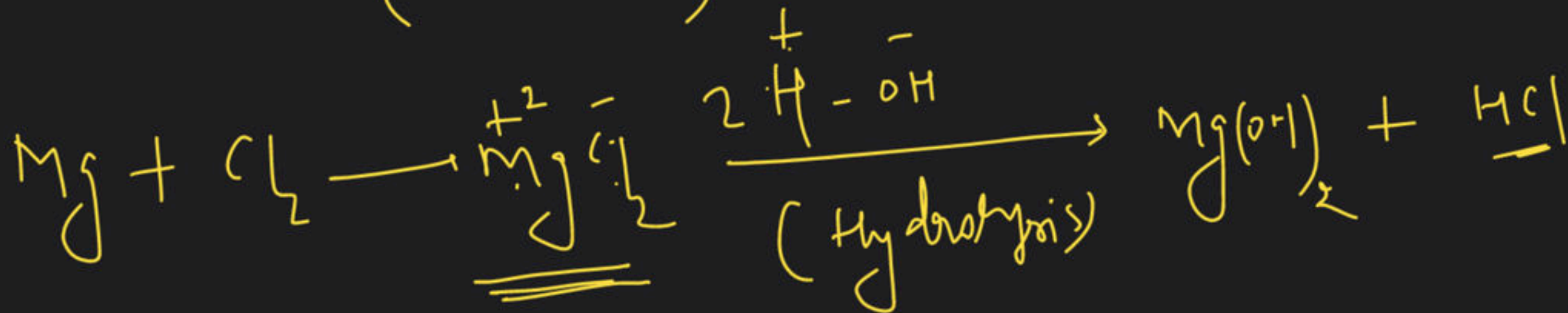
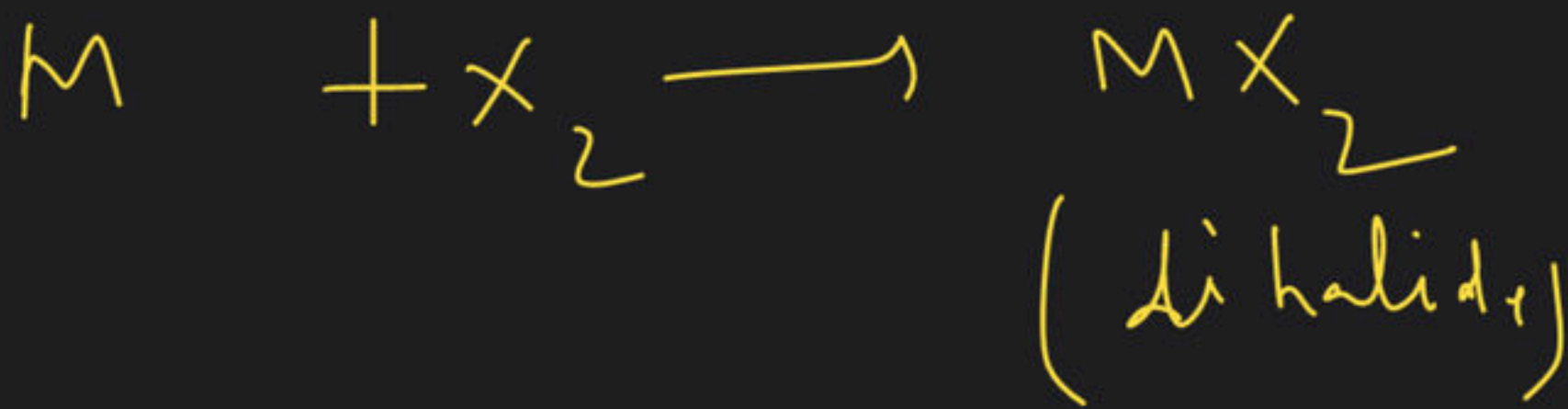
reaction halogen (F, Cl, Br, I)

alkali metals

monohalides



alkaline
earth metal



1 2 3 4 8 10

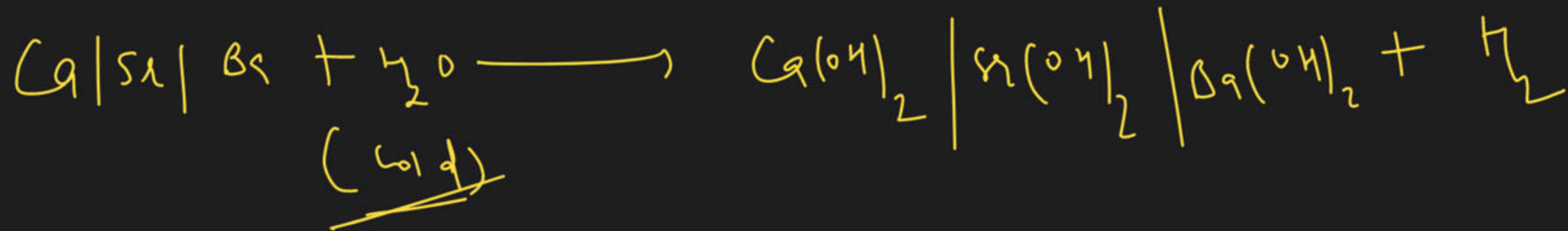
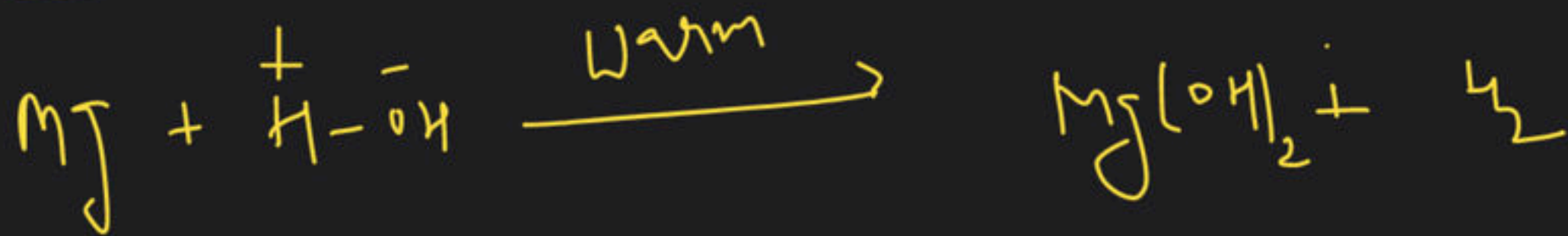
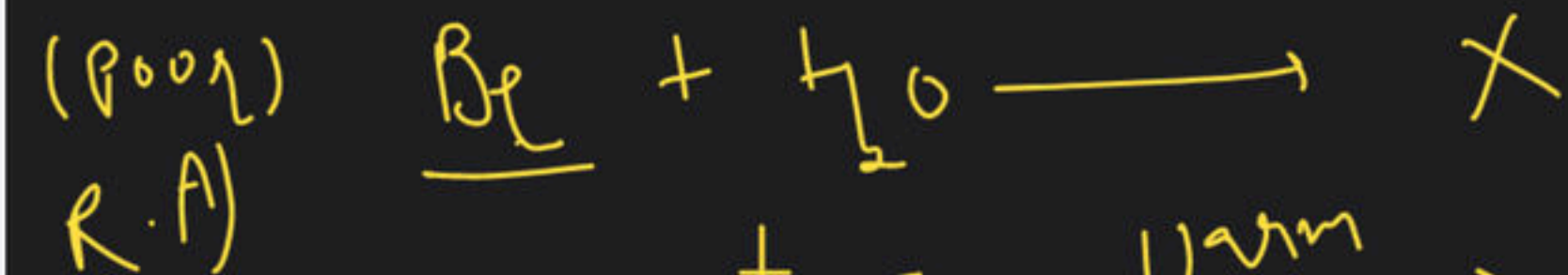
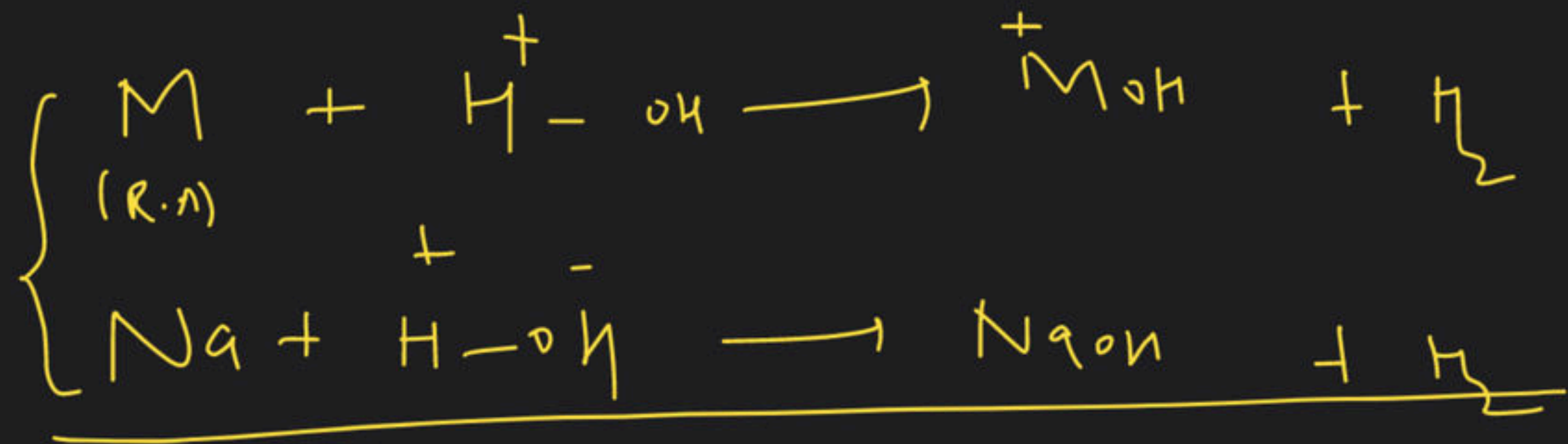
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Redox

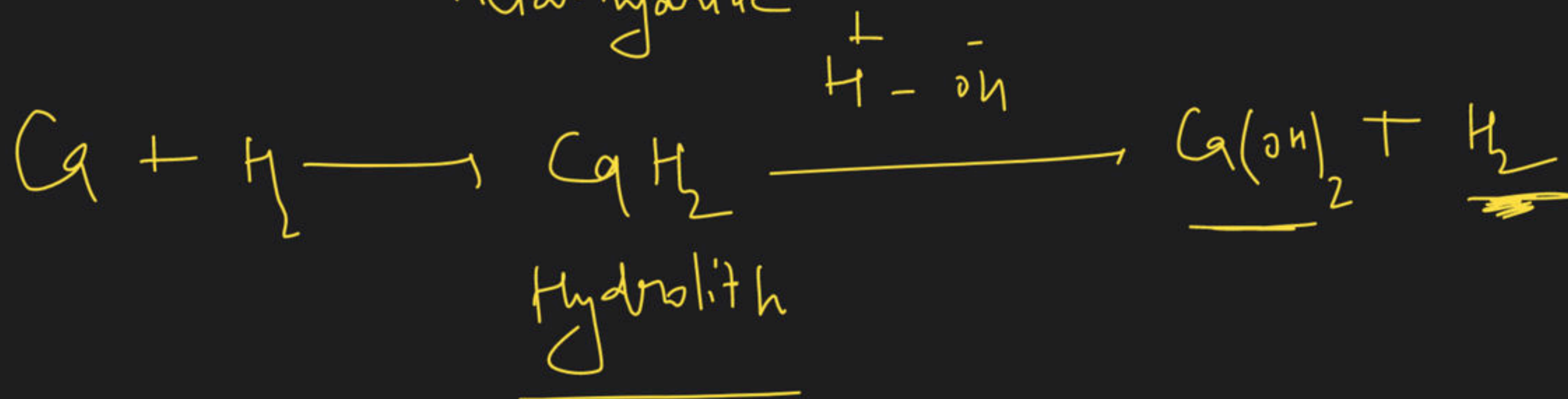


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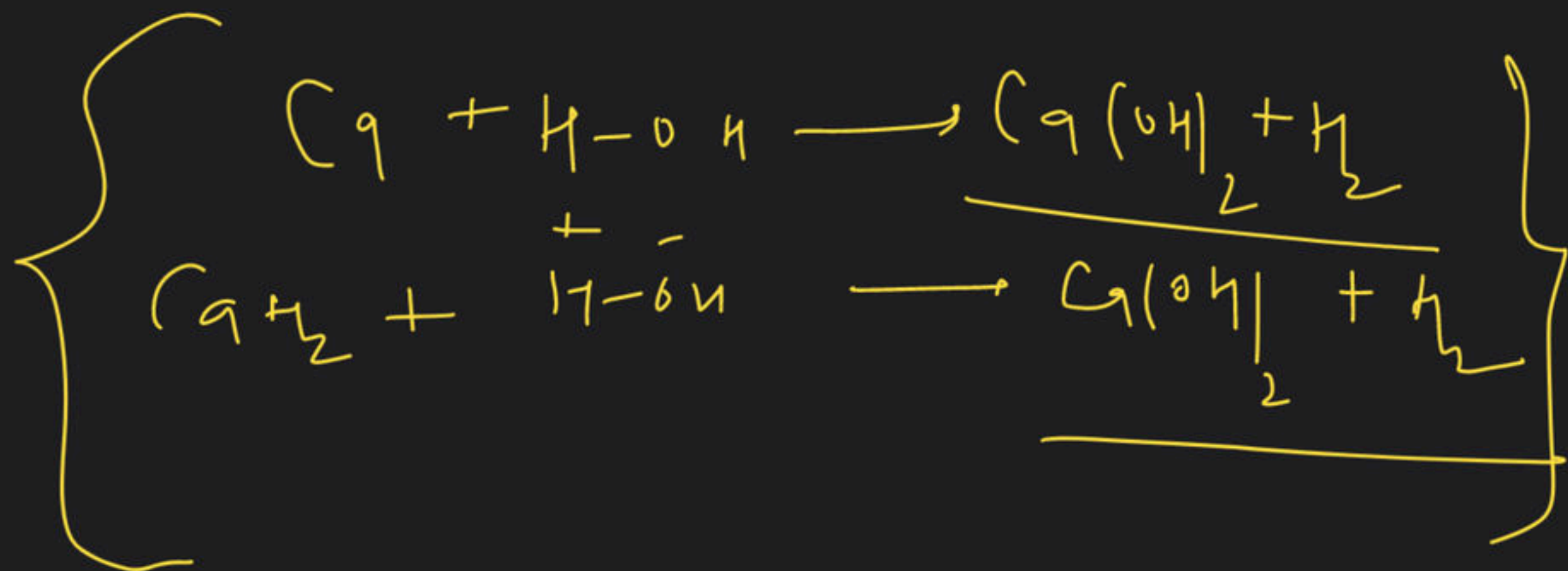


reaction with H_2



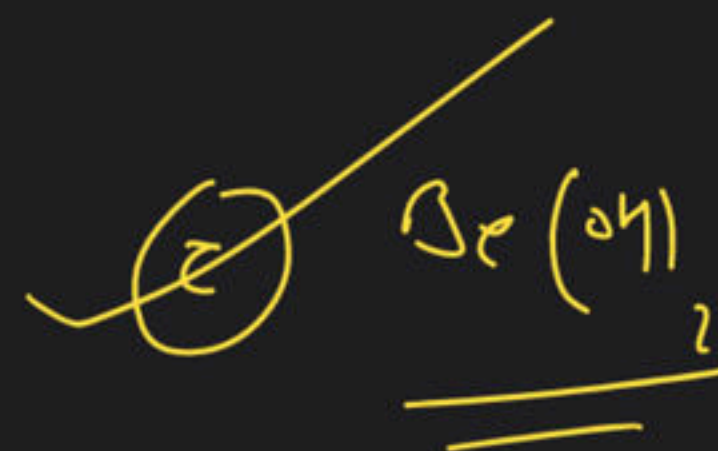
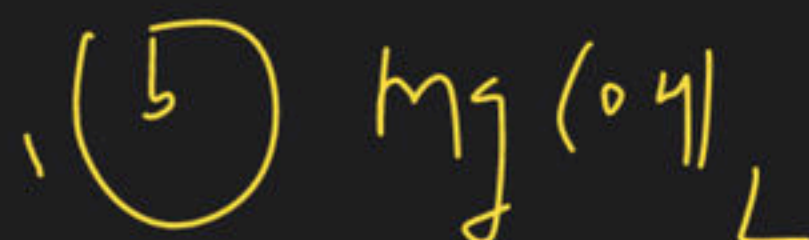
Which of the following set give same product on hydrolysis

- (a) Ca, Sr ~~(b)~~ Ca, CaH₂ (c) Ba, Be (d) none



Q4

The amphoteric hydroxide is

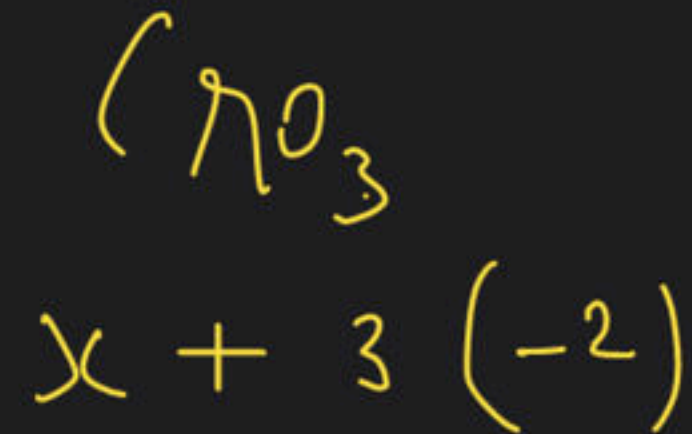
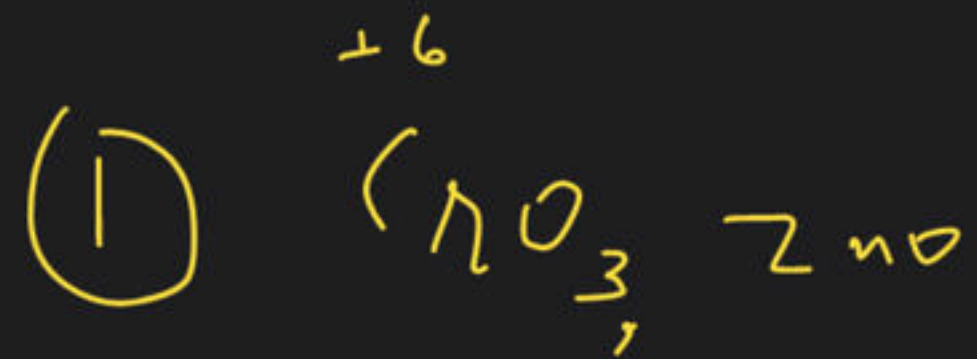


Key point +
↓
Pb Zn Be Al Ga Sn (1)

all the possible oxides and hydroxide Amphoteric



advanced
Which of the following pairs of oxides are
Amphoteric



$$x = \underline{+6}$$

~~★~~ $\text{NO}, \text{CO}, \text{NO}_2, \text{H}_2\text{O} = \text{neutral oxide}$

Reaction with water of alkali



Li =

Na =

K | Rb | Cs =