



CHEMISTRY ONLINE
— **TUITION** —

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CHEMISTRY

PHYSICAL CHEMISTRY

LEVEL & BOARD:	OCR (AS - LEVEL)
TOPIC:	Compounds, Formulae & Equations
PAPER TYPE:	SOLUTION 3
TOTAL QUESTIONS	07
TOTAL MARKS	17

Compounds, formula & Equation 3

Q.1

(i) Equation for reaction between Scandium and oxygen.

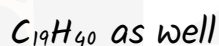


Q.2

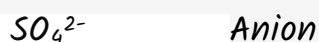
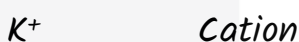
(i) Alkane with 19 carbons would have molecular formula as,



Therefore empirical formula would be



Q.3

Formula of ions present in K_2SO_4 

Reaction 1

Q.4



Reaction 2



(ii) The bonding in Potassium nitrate is ionic, resulting from Electrostatic attraction between K^+ ions and NO_3^- ions as well as Covalent bond between nitrogen and oxygen atoms.

Dot/cross diagram of K_2O_2 

Q.5

Bromine reacts with Potassium



Q.6

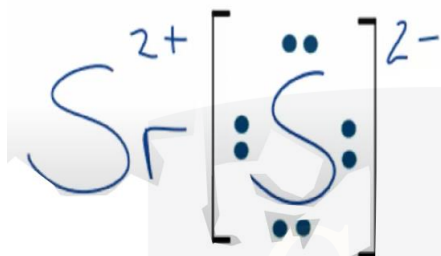
(i) Barium Sulphate is formed So, observation would be white Crystalline Powder



(b)

(i) magnesium hydroxide is used to treat excessive acidity in Stomach

(i) Dot/cross diagram for SrS



Q.7

Sodium ion



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- Founder & CEO of Chemistry Online Tuition Ltd.
- Completed Medicine (M.B.B.S) in 2007
- Tutoring students in UK and worldwide since 2008
- CIE & EDEXCEL Examiner since 2015
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