

Jawapan Module Teaching Learning Chemistry Form 4 Nilam Publication Pdf

1/4

## Explanation / Penerangan:

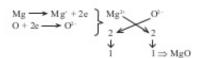
- (a) Electron arrangement of sodium atom is 2.8.1 . Sodium atom has one valence electron. Therefore sodium atom is not stable. Sodium atom releases one electron to achieve a stable octet electron arrangement to form sodium ion. Na\* with electron arrangement 2.8.

  Susunan elektron atom natrium ialah 2.8.1 . Atom natrium mempunyai satu elektron valens. Dengan itu atom natrium tidak stabil. Atom natrium melepaskan satu elektron ini untuk mencapai susunan elektron oktet yang stabil membentuk ion natrium. Na\* dengan susunan elektron 2.8.
- (b) Electron arrangement of chlorine atom is 2.8.7 . Chlorine atom has seven valence electrons. Chlorine atom receives one electron to achieve stable octet electron arrangement to form chloride ion, Cl<sup>-</sup> with an octet arrangement of electron 2.8.8 .

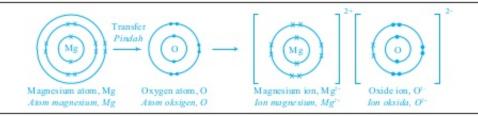
  Susunan elektron bagi atom klorin ialah 2.8.7 . Atom klorin mempunyai tujuh elektron valens. Atom klorin mencapai susunan elektron oktet yang stabil dengan menerima satu elektron membentuk ion klorida . Cidengan susunan elektron 2.8.8
- (c) Sodium ions , Na\* and chloride ions , C1 ions are attracted with strong electrostatic force. The bond formed is called ionic bond. I lon natrium , Na\* dan ion klorida , C1 ditarik dengan daya elektrostasik yang kuat. Ikatan yang terbentuk dinamakan ikatan ion.
- (ii) Magnesium oxide / Magnesium oksida

Predict the formula / Ramal formula:

Element Unsur	Proton number Nambar proton	Electron arrangement Susunan elektron
Mg	12	28.2
0	8	2.6



Draw the electron arrangement of the compound formed. / Lukiskan susunan elektron bagi sebatian yang terbentuk.



## Explanation / Penerangan:

- (a) The electron arrangement of magnesium atom is 2.8.2 . Magnesium atom has two valence electrons. Therefore magnesium atom is not stable . Magnesium atom releases two valence electrons to achieve a stable octet electron arrangement to form magnesium ion , Mg<sup>1+</sup> with electron arrangement 2.8
  - Susunan elektron atom magnesium <u>2.8.2</u>. Atom magnesium mempunyai <u>dua</u> elektron di petala terluar.

    Maka atom magnesium tidak <u>stabil</u>. Atom magnesium melepaskan <u>dua</u> elektron valens untuk mencapai susunan elektron oktet yang stabil membentuk <u>ion magnesium</u>, Mg<sup>2+</sup> dengan susunan elektron <u>2.8</u>.
- (c) Magnesium ion , Mg<sup>2+</sup> and oxide ion , O<sup>2-</sup> are attracted by strong electrostatic force. The bond formed is called ionic bond. / Ion magnesium , Mg<sup>2+</sup> dan ion oksida , O<sup>2-</sup> ditarik dengan daya elektrostatik yang kuat. Ikatan yang terbentuk dinamakan ikatan ion.

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80

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3/4

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4/4