

ABSTRACT

Selviyanti. 2018. Identification of Misconceptions in Class X Students of SMA Negeri 1 Telaga in the Material of Chemical Bonds. Thesis Department of Chemistry Education, Undergraduate Program (S1) Faculty of Mathematics and Natural Sciences, State University of Gorontalo (UNG). Supervisor I Julhim Tangio S.Pd, M, Pd and Counselor II Wiwin R. Kunusa, S.Pd, M.Sc.

The purpose of the study was to determine the percentage of student misconceptions and causes of misconceptions in SMA Negeri 1 Telaga in the material of chemical bonding. This research is a descriptive research. The sample in this study was taken by purposive sampling technique. The study sample was students of class X MIA 1, X MIA 2 and X MIA 4, totaling 74 students. Data collection techniques by providing a reasoned multiple choice test accompanied by a certainty of response index (CRI) method as a tool to measure student misconceptions on ion bonding material and covalent bond as many as 18 items, and continued with interviews with students who detected misconceptions from the test results. The results showed that there was a misconception on each number of questions on ion bonding material and covalent bond with an average percentage of 27.24%. The misconception that occurs in students is caused by students and books.

Keywords: Misconceptions and chemical bonds.