ABSTRACT

CORRY SEPVIA BR PASARIBU. Analysis of Student's High Order Thinking Skill and Scientific Attitude on General Biology Course in Mathematics and Natural Science Faculty of Medan State University. Postgraduate School of Medan State University, 2021.

This study's aim is to find out the level of student's high order thinking skill (HOTS) and scientific attitude on genereal biology course in Mathematic and Natural Science Faculty of Medan State University. This research belongs to ex post facto research (non-experimental design) with 440 total population of student in academic year 2020/2021. The purposive sampling is used to take 141 students who came from 6 class such as biology bilingual, chemistry bilingual, natural science bilngual, biology C regular, chemistry D regular and natural science B regular. Samples were tested by using HOTS instrument and scientific attitude questionare. The instrument consists of 30 high order thinking question (C4,C5 and C6 taxonomy bloom level in HOTS) and 90 statemement of scientific attitude about reproduction, biodiversity and nutrition. The data shows that the level of student's HOTS is minimally skilled with mean score 36.31 ± 13.08 ($\overline{X}$ ± SD). Furthermore, the students are categorized as good with mean score 74.76 ± 5.28 ($\overline{X}$ ± SD) in applying scientific attitude when they were studying reproduction, biodiversity and nutrition. Bilingual students have minimally skilled category (39.04 ± 13.70 ($\overline{X}$ ± SD)) and regular students are classifed as minimally skilled category (34.85 ± 12.57 ($\overline{X}$ ± SD)) in answering HOT question on general biology course. Bilingual students are good category with mean score 76.10 ± 6.07 ($\overline{X}$ ± SD) in applying scientific attitude on general biology course. Moreover, regular students have good category with mean score 74.05 ± 4.68 ($\overline{X}$ ± SD) in demonstrating scientific attitude on general biology course.

Keyword : Analysis, HOTS, scientific attitude, general biology, score, instrument