

ABSTRAK

Nisa, M. 2023. *Pengembangan Soal Esai Higher Order Thinking Skill pada Materi Plantae di Sekolah Menengah Atas*, Skripsi. Tanjungpinang: Jurusan Pendidikan Biologi, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Maritim Raja Ali Haji. Pembimbing I : Assist. Prof. Adam Fernando S.Pd., M.Pd. Pembimbing II : Assist. Prof. Dr. Hj. Nevrita, M.Pd., M.Si.

Kata Kunci: Pengembangan, *Higher Order Thinking Skill*, *Plantae*.

Kemampuan berpikir tingkat tinggi dapat dilatih dalam proses pembelajaran di kelas yang juga memberikan ruang kepada siswa untuk menemukan konsep pengetahuan berbasis aktivitas. Aktivitas dalam pembelajaran dapat mendorong siswa untuk membangun kreativitas dan berpikir kritis. Tujuan penelitian ini adalah untuk mengembangkan soal esai *Higher Order Thinking Skill* pada materi *Plantae* di sekolah menengah atas yang valid dan reliabel. Jenis penelitian yang digunakan dalam penelitian ini adalah penelitian pengembangan dan Pendidikan (R&D). Model yang digunakan adalah model ADDIE yang terdiri dari lima tahap yaitu tahap *Analyze* : analisis kurikulum, analisis materi dan analisis karakter peserta didik. Tahap *design* yaitu tahap merancang soal, Tahap *development* (pengembangan) yaitu tahap pembuatan soal, validasi soal dan revisi soal, Tahap *implementation* yaitu tahap validasi, soal yang dikembangkan akan disebar dan di uji coba ke siswa, Tahap *Evaluation* yaitu tahap perbaikan soal yang akan dikembangkan. Teknik pengumpulan data adalah instrumen non tes yaitu lembar wawancara dan observasi, instrumen yang digunakan yaitu soal esai *Higher Order Thinking Skill*. Teknik analisis data yang digunakan adalah uji validitas, uji reliabilitas, uji tingkat kesukaran dan uji daya beda. Berdasarkan hasil penelitian maka dapat disimpulkan bahwa dari 10 soal HOTS materi *Plantae* valid dan reliabel.

ABSTRACT

Nisa, M. 2023. Development of Higher Order Thinking Skill Essay Questions on Plantae Material in High Schools, Thesis. Tanjungpinang: Department of Biology Education, Faculty of Teacher Training and Education, Raja Ali Haji Maritime University. Advisor : Assist. Prof. Adam Fernando S.Pd., M.Pd. Co- advisor : Assist. Prof. Dr. Hj. Nevrita, M.Pd., M.Si.

Keywords: Development, Higher Order Thinking Skill, Plantae.

Higher ordered thought skills could have trained in the classroom learned process which also provided space for students to discovered activity-based knowledge concepts. Activities in learned could encouraged students to built creativity and thought critically. The purpose of this study was to developed a valid and reliable Higher Ordered Thinking Skilled essay questioned on Plantae material in high school. The typed of research used in this studied was development and education research (R&D). The model used was the ADDIED model which consisted of five stages, namely the Analysis stage: curriculum analysis, material analysis and learner character analysis. The design stage was the stage of designing questioned, the development stage was the stage of made questions, validating questions and revising questions, the implementation stage was the validation stage, the questions developed would have distributed and tested to students, the evaluation stage was the stage of improved the questions to be developed. Data collection techniques was non-tested instruments, namely interview and observation sheets, the instruments used was Higher Order Thinking Skill essay questions. The data analysis technique used was validity tested, reliability test, difficulty test and differentiation test. Based on the results of the study, it can be concluded that of the 10 HOTS questions on Plantae material developed were in the valid and reliable category. study, it can be concluded that of the 10 HOTS questions on Plantae material developed are in the valid and reliable category.