

**ANALISIS BUTIR SOAL UJIAN AKHIR SEMESTER GENAP MATA
PELAJARAN BIOLOGI KELAS XII MIPA SMA NEGERI 7
MEDAN TAHUN PEMBELAJARAN 2018/2019**

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ABSTRAK

Penelitian ini bertujuan untuk menganalisis sebaran ranah kognitif Taksonomi Bloom edisi revisi Anderson, sebaran kompetensi dasar dan indikator, serta kualitas soal ditinjau dari kualitatif dan kuantitatif. Penelitian ini dilaksanakan di SMA Negeri 7 Medan Tahun Pembelajaran 2018/2019. Jenis penelitian ini adalah penelitian deskriptif. Sampel penelitian ini adalah kisi-kisi soal, lembar jawaban siswa sejumlah 262 lembar, dan kunci jawaban. Data diperoleh dengan teknik dokumentasi. Data kemudian dianalisis sesuai dengan kata kerja operasional ranah kognitif Taksonomi Bloom edisi revisi Anderson serta dikelompokkan sesuai dengan kompetensi dasar dan indikator pada silabus. Analisis kualitatif dengan teknik *expert judgement* yang bertujuan untuk mengetahui validitas isi soal. Analisis kuantitatif dilakukan dengan bantuan komputer menggunakan program Anates untuk mengetahui validitas soal, reliabilitas soal, tingkat kesukaran, daya beda, dan keefektifan pengecoh. Hasil penelitian menunjukkan bahwa: (1) Sebaran ranah kognitif Taksonomi Bloom edisi revisi Anderson pada soal belum merata, soal didominasi oleh ranah kognitif level C3 (menerapkan), (2) Persebaran Kompetensi Dasar dan Indikator pada soal belum tersebar merata; (3) Karakteristik soal secara kualitatif (validitas isi soal) tergolong sangat baik pada soal pilihan ganda karena dari hasil telaah menunjukkan kesesuaian telaah soal sebesar 92,60% dan soal essay tergolong baik karena menunjukkan kesesuaian sebesar 88,44% (esai); (4) Karakteristik soal secara kuantitatif menunjukkan bahwa : ditinjau dari validitas, soal yang valid pada pilihan ganda sebesar 80% dan esai mencapai 100%, ditinjau dari reliabilitas seluruh soal sudah reliabel dengan nilai koefisien reliabilitas sebesar $r_{11} = 0,72$ (pilihan ganda) dan 0,79 (esai); ditinjau dari tingkat kesukaran, 11 soal (55%) butir soal pilihan ganda tergolong sedang, sedangkan esai tergolong mudah 100%; ditinjau dari segi Daya Pembeda, 10 butir (50%) butir soal pilihan ganda tergolong baik sedangkan soal esai ada 2 butir (40%) tergolong baik ; ditinjau dari segi Efektivitas Pengecoh menunjukkan 4 butir soal (20%) memiliki pengecoh sangat baik, 4 butir soal (20%), memiliki pengecoh baik, 8 butir soal (40%) memiliki pengecoh cukup baik.

Kata Kunci : *Analisis Butir Soal, Ujian Akhir Semester Genap, Pilihan Ganda, Esai*

**ITEM ANALYSIS OF EVEN SEMESTER FINAL EXAMINATION
OF BIOLOGY SUBJECT GRADE XII MIPA IN SMA NEGERI 7
MEDAN ACADEMIC YEAR 2018/2019**

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ABSTRACT

This study aims to analyze the distribution of cognitive domains of Bloom's Taxonomy edition of Anderson's Revision, the distribution of basic competencies and indicators, and the quality of questions in terms of qualitative and quantitative. This research was conducted in 7 Medan State High School Learning Year 2018/2019. This type of research is descriptive research. The sample of this research is the question grid, the student answer sheet totaling 262 sheets, and the answer key. Data obtained by documentation techniques. Data were then analyzed according to the cognitive domain operational verb of Bloom's Taxonomy edition of Anderson's Revision and grouped according to basic competencies and indicators on the syllabus. Qualitative analysis with expert judgment technique aims to determine the validity of the contents of the question. Quantitative analysis carried out with the help of computers using the Anates program to determine the validity of the question reliability, level of difficulty, power difference, and effectiveness of deception. The results showed that: (1) the cognitive domain distribution of Bloom's Taxonomy edition of Anderson's Revision on the problem is not evenly distributed, the problem is dominated by the cognitive domain of C3 level (applying), 2) Basic Competency Distribution and Indicators on the questions have not been spread evenly; 3) Characteristics of the questions qualitatively (the content validity of the questions) are very good on multiple choice questions because the results of the study show the suitability of the question study is 92.60% and the essay questions are good because they show a suitability of 88.44% (essay); 4) Characteristics of the questions quantitatively indicate that : in terms of validity, valid questions in multiple choices are 80% and essays reach 100%, in terms of reliability all questions are reliable with reliability coefficients of $r_{11} = 0.72$ (multiple choice) and 0.79 (essays); in terms of the Level of difficulty, 11 questions (55%) items of multiple choice are classified as moderate, while essays are classified as easy 100%; in terms of Discrimination Power, 10 items (50%) multiple choice items are classified as good while essay questions have 2 items (40%) classified as good; Distractors Effectiveness showed that 4 items (20%) had excellent distractor, 4 items (20%), had good distractor, 8 items (40%) had quite good distractor.

Keywords : *Item Analysis, Even Semester Final Exam, Multiple Choice, Essay*