

## **EVALUATION OF TURKISH STUDENTS SELECTION EXAMINATION QUESTIONS FOR MATHEMATICS 2/ALGEBRA**

(Penilaian Soalan Peperiksaan Pemilihan Pelajar Turki untuk Matematik 2/Aljabar)

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### *ABSTRACT*

This study examines the 2006, 2007 and 2008 Students Selection Examination questions (Mathematics 2/Algebra) in terms of level and content. The knowledge and skills necessary to answer these questions correctly were examined using questions administered according to the subject areas. The questions were administered to 627 1<sup>st</sup> grade students studying in different departments of the Faculty of Education of Atatürk University and Rize University. Their answers were used to calculate the item difficulty index of each question. The questions of each year were applied to the 1st grade university students taking the examination and entering the university in that year. Overall, results indicate that students who scored well in the Student Selection Examination, and succeeded in gaining university entrance, had difficulty answering the questions requiring the collective use of conceptual and operational knowledge.

*Keywords:* Student Selection Examination - Mathematics 2/Algebra questions; item difficulty; level and content analysis

### *ABSTRAK*

Dalam kajian ini dinilai soalan-soalan Peperiksaan Pemilihan Pelajar Matematik 2/Aljabar bagi tahun 2006, 2007 dan 2008 dari segi tahap dan kandungan. Pengetahuan dan kemahiran yang diperlukan untuk menjawab soalan-soalan ini dengan betul telah dinilai melalui soalan yang disediakan mengikut bidang. Soalan-soalan tersebut telah diberikan kepada 627 orang pelajar gred 1 daripada jabatan-jabatan yang berbeza dalam Fakulti Pendidikan, Universiti Atatürk dan Universiti Rize. Jawapan mereka telah digunakan untuk mengira indeks kesukaran item bagi setiap soalan. Soalan pada setiap tahun telah diuji ke atas pelajar universiti gred 1 yang memasuki universiti tersebut pada tahun berkenaan. Secara keseluruhannya, keputusan menunjukkan bahawa pelajar yang mendapat tempat yang baik dalam Peperiksaan Pemilihan Pelajar, dan berjaya ditawarkan ke universiti, menghadapi kesukaran untuk menjawab soalan-soalan yang memerlukan gabungan pengetahuan berbentuk konsep dengan operasian.

*Kata kunci:* Peperiksaan Pemilihan Pelajar - soalan Matematik 2/Aljabar; kesukaran item; analisis tahap dan kandungan

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