

List of abbreviations

BSE — Basic State Examination
EQA — Educational Quality Assessment
FAI — Fund of assessment instruments
FL — Foreign languages
FSES — Federal State Educational Standards
HEI — Higher Educational Institution
MI — Measuring instruments
SSA — State summative assessment
SSE — State School-leaving examination
USE — Unified State Examination

Content**EDITOR-IN-CHIEF'S COLUMN**

Reshetnikova, O.A.

Main directions of the research and methodological activities of the Federal Institute for Educational Measurement (FIPI).

Abstract: The main directions of the research and methodological activities of FIPI are specified as the development and pre-testing of the perspective models of measurement instruments for the assessment of the quality of education, improvement of the structure and content of the measurement instruments for the Basic State Exam, Unified State Exam and for the State School-leaving Exam. Maintenance of the methodological support for the state exams raters' training, processing of the Unified State Exam results and their analysis.

Keywords: Educational Quality Assessment, research and methodological support, model of measuring instruments, State Summative Attestation, measuring instruments for BSE, USE and SSE.

METHODOLOGY

Efremova, N.F.

Criterion requirements to the funds of the assessment instruments

Abstract: The funds of the assessment instruments (FAI) are viewed as a means for the assessment of educational achievements in a higher educational institution. On the basis of the competences structure and the three-stages model of its assessment is presented a model of the co-operation between the main components of FAI and an Assessment Service. The criteria for the assessment of FAI and HEI assessment system efficiency are presented.

Keywords: competences model, assessment of competencies, funds of the assessment instruments, criterion requirements.

Zvonnikov, V.I., Chelyshkova, M.B.

Modern approaches to the assessment of the quality of Higher Education.

Abstract: The problem of educational quality assessment is considered in the context of competence approach which is the primary factor of modern innovations in higher education. For the validation of measurement variables the Structural Linear Equation Modeling method is offered. The assessment of a competence is done on the basis of multistage measurements. The model of three-phase measurements is considered. This model is suggested for the use in adaptive mode. As an example of adaptive measurements model, six modules are discussed, allowing ensuring the reliability of measurements.

Keywords: educational quality assessment, competence, reliability, validity, adaptive testing, measuring instrument model, Structural Linear Equation Modeling.

Tsybulko, I.P.

State Summative Attestation of Russian: an anthropological approach

Abstract: The problems of the State Summative Attestation, diagnostics and control are considered in the light of the strengthening anthropological positions of the modern humanitarian education. We stress the importance of the shift in diagnostics of educational achievements from the sphere of pure rationality into the sphere of the linguistic thinking where the building of a growing personality takes place.

Keywords: personality, development, State Summative Attestation, Language-centered model, holistic knowledge, contextualization of knowledge.

Verbitzkaya, M.V., Makhmuryan, K.S., Simkin, V.N., Solovova, E.N.

On the development of a model of a two-level Unified State Exam in foreign languages

Abstract: The problems of the development of a new examinations model which would meet the requirements of Federal State Educational Standards for Foreign Languages. Based on the analysis of the education content structure, a single position codifier is proposed. The means for the realization of competence and text-centered approaches in FL measuring instruments for USE are suggested.

Keywords: USE in foreign languages, two-level examination model, competence approach, text-centered approach, a single position codifier.

MEASURING INSTRUMENTS

Liskova, T.E.

The foundation for the development of new USE model for social studies.

Abstract: A new model of the Social studies exam is presented. The main reasons for the choice of the exam structure and the assessment content are explained. Presented are the items for the assessment of theoretical notions.

Keywords: measuring instruments, USE in social studies, examination model, activity approach.

Zinin, S.A.

The dynamics of the Literature USE model development.

Abstract: We follow the dynamics of the Literature USE model development; we present its structure and the specifics of functioning, comment on the candidates' typical errors. We look at the perspectives of the exam's further development.

Keywords: text analysis, intra-subject relations, assessment criteria, literary context, problem question, essay, theoretical notions, examination model.

Artasov, I.A.

The assessment of historic essay in the new model of History USE.

Abstract: The approaches to the writing of the items of creative character (historic essay) and the criteria of its assessment. The examples of the assessment criteria application are analyzed.

Keywords: measuring instruments, History USE, historic essay, assessment criteria

Kaverina, A.A.

Modeling theoretical and practical items for the assessment of the school-leavers' educational achievements in Chemistry

Abstract: We present the content interpretation of the educational objectives in Chemistry course at basic general education stage and offer methodological approaches to the modeling of test items. We give examples of the new items, assessing major educational objectives.

Keywords: assessment of educational achievements in Chemistry, educational objectives, item modeling, practice-orientation

Kalinova, G.S.

Improving USE in Biology model considering the FSES requirements

Abstract: The current model of the USE in Biology is presented, the perspective changes in it related to the Federal State Educational Standards are discussed. We give examples of the new items which measure the major subject competencies presented in FSES.

Keywords: USE Biology model, content selection, item typology

REGIONAL SYSTEMS OF EQA

Kuzmin, P.V., Zozulya, ES.

Independent diagnostics in the regional system of Educational Quality Assessment in the city of Moscow.

Abstract: We share the experience of the Moscow center for Educational Quality in conducting independent diagnostics of the educational achievements. We describe the features of the assessment practices, approaches towards the development of instruments and diagnostic procedures. We also present the opportunities provided by the city information analytical system the «Moscow register of the Educational Quality» for the presentation and analysis of the assessments' results.

Keywords: independent diagnostics, subject and meta-subject diagnostics, assessment administration, Moscow register of the educational quality.

EDUCATION QUALITY ASSESSMENT PROCEDURES

Orekhova, S.V.

Three-stage system of agreement approach in assessment of the USE essay-type items

Abstract: We describe the system of procedures which ensure the raters' agreement in marking the essay-type items on three levels: federal procedures, regional procedures and operative agreement. We discuss the analysis of the agreement procedures in the work of regional subject teams.

Keywords: agreement in the approaches to marking, agreement procedures,

Lebedeva, I.Y.

The development of the system of the Physics raters' training for the Saint Petersburg regional examination board.

Abstract: We present the experience of the work of the regional Physics commission in Saint Petersburg. The processes of the expert society formation, expert (markers') training, and selection of the leading and senior experts are described. We propose some approaches towards the analysis of the marking quality and criteria for the quality marking.

Keywords: regional subject commission, expert training, analysis of experts' work.

TESTER'S PRACTICUM

Polezhayeva, M.V., Osipov, A.S.

Typical errors in writing History Multiple Choice items

Abstract: We consider the main requirements towards the items of the Multiple Choice format. We give the History items which contain typical errors. The material is meant for the item-writers as well as teachers, who use tests to control the quality of students' achievements.

Keywords: test items, educational testing, History items

Muratova, I.A.

Topical problems of language testing

Abstract: The use of MCQ items in language testing is discussed. We present the rules for the writing of such items for language testing. The material is meant for the item writers and the item writers' trainers.

Keywords: multiple choice questions, rules taxonomy, language testing items

FOREIGN COLLEAGUES' EXPERIENCE

Nurminskiy, A.I.

Australia: approaches to the educational quality assessment

Abstract: We present overview of the system of the research in National educational quality assessment which includes The National Assessment Program – Literacy and Numeracy (NAPLAN) as well as the

assessment of specific kinds of literacy within NAP and participation in the international comparative studies of educational quality.

Keywords: The National Assessment program, assessment of literacy and numeracy, selective assessment

HISTORY PAGES

Brazhnikov, M.A.

The lesson is to be learned! Notes on students' achievements in a pre-1917 revolution gymnasium.

Abstract: The story of how the marking system in the 19th century Russia was developed is presented. We analyze the process of the assessment unification, the marking practices in gymnasiums and a gradual change in the assessment criteria in a pre-1917 revolution Russia.

Keywords: development of the achievement score system, marking criteria in pre- 1917 revolution Russia, rules for the examinations administration in a 19th century gymnasium.

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Учредитель ООО «НИИ школьных технологий».
Свидетельство о регистрации СМИ ПИ №77-15870 от 07.07.2003 г.
109341, Москва, ул. Люблинская, д. 157, корп. 2
Тел.: (495) 345-52-00
E-mail: narob@yandex.ru
Распространение: no.podpiska@yandex.ru

Отпечатано в типографии НИИ школьных технологий
Тел. (495) 972-59-62

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Content**EDITOR-IN-CHIEF'S COLUMN**

Reshetnikova, O.A.

Factors influencing the changes in assessment measuring instruments

Abstract: The article looks at the main methodological approaches towards the selection of structure and content of MI for SSA. Analyzed are the conditions and factors which influence the substitution of an examination model: implementation of new state educational standards, new teaching strategies in a certain subject, improvement of MI based on the examination results analysis, introduction of new technologies in a large-scale assessment.

Keywords: State summative assessment, examination model, USE, BSE, improvement of MI

METHODOLOGY

Kravtsov, S.S.

The main directions of the development of the All-Russian System of Education Quality Assessment

Abstract: There is an analysis of the main directions of the development of the various assessment procedures on the Federal level: the USE; the national studies of education quality and All-Russian tests; perspectives for introduction of the summative assessment in subjects which are not included in the list for SSA.

Keywords: All-Russian system of Education Quality Assessment, state summative assessment, USE, national studies of education quality, All-Russian tests

Reshetnikova, O.A., Demidova, M.Y., Zinina, E.A.

Materials for the State School-leaving examinations for learners with special needs

Abstract: Analyzed are the conditions for SSA of learners with special needs and on the basis of the analysis the methodological approaches to the development of examination materials for oral and written forms of the exams for this category of students are described.

Keywords: state school-leaving examination, examination materials, learners with special needs, choice of an SSA form

MEASURING INSTRUMENTS

Demidova, M.Y., Kamzeyeva, E.E., Gribov, V.A.

Approaches to the development of the BSE and USE Physics examination models in accordance with FSES requirements

Abstract: Described are the approaches towards the process of specifying the FSES requirements to the student achievements in Physics and their operationalization. In relation to the activities structure, we consider approaches towards the assessment of the dynamics in their mastering. The choice of the Measuring Instruments structure, which realizes the activity-based and multilevel approaches towards the assessment of the results, is justified.

Keywords: perspective model of SSA in physics, activity-based approach, planned results, operationalization, Measuring Instruments structure

Leschiner, V.R.

Difficulty levels of items in the Informatics and ICT Unified State Examination

Abstract: We look at the approaches towards the construction of different levels of difficulty items for the Informatics and ICT USE. The factors which determine the level of difficulty are described: content and operational difficulty, model novelty. Statistics which demonstrates the peculiarities of different item group aimed at the differentiation between the candidates is presented.

Keywords: USE MI for informatics and ICT, difficulty levels of items, content and operational difficulty, differentiation between candidates

Kalinova, G.S.

Assessment of the students achievements in Biology in the conditions of education modernization

Abstract: The problems of Biology education modernization started with the introduction of the FSES are considered: content renewal based in the latest scientific findings, ensuring continuity with the other science and humanities subjects, realization of optimization of Biology education principles, changes in the methodology of assessment. Items of different types and difficulty levels for the assessment of Biology knowledge and skills and the ability to apply them in non-standard situations are analyzed.

Keywords: FSES, basic curriculum, modernization, planned results, assessment of the achievements, measuring instruments

Artasov, I.A.

Marking the argumentation items in History USE.

Abstract: The peculiarities of marking the argumentation items of the History USE are characterized. We describe the approaches towards the construction of the general marking scheme and give examples of marking certain arguments which candidates use.

Keywords: MI, History USE, argumentation items, marking criteria

Lobanov, I.A.

Specifics in marking the constructed response items in Social Studies USE

Abstract: We look at the problems which arise when marking the papers of candidates in the regional examination boards. We discuss the examples of difficult cases and give recommendations to the markers on how to overcome the typical difficulties.

Keywords: MI in Social Studies USE, constructed response items, marking, agreement between the markers

Krainik, O.M.

Assessing learners' achievements using the items from the Fund of Assessment Instruments

Аннотация: We share our experience when using FAI for «Russian and Speech Culture» for assessment of the specialist of tertiary level. Basic approaches towards the construction and application of the assessment materials are presented, the specific samples of the materials are given.

Keywords: educational achievements, Russian, speech culture, competence, Fund of Assessment Instruments, case-item, speech text-based items

REGIONAL SYSTEMS OF EQA

Zahir, Y.S.

Regional systems for Quality of the Secondary Schools Education: what's ahead?

Abstract: The project on a study of the regional systems of education quality assessment is described and an attempt of prognosis on the institutional and content changes in them for the nearest decade is made: development of the assessment subjects list, new assessment objects, changes in approaches towards the assessment of teachers' professional competencies.

Keywords: education quality, regional systems of education quality assessment, assessment subjects, assessment objects, soft skills, digital skills of teachers

EDUCATION QUALITY ASSESSMENT PROCEDURES

Zozulya, E.S., Kamzeeva, E.E.

Service for distant marking of constructed response items

Abstract: In the article we describe the system of distance marking of constructed response items which was developed in the Moscow Center for Education Quality and is used in the procedures of independent diagnostics in Moscow. We look at the procedures for the training of markers, methods for ensuring the reliability of marking, the administration of marking.

Keywords: Moscow Center for Education Quality, service for distance marking, constructed response items, reliability of marking, administration of marking

TESTER'S PRACTICUM

Beloborodov, V.N., Tatur, A.O.

IRT application in the system of diagnostic materials measuring properties control

Abstract: We share our experience of using Item Response Theory for the control of measuring properties of the diagnostic materials which are used in the assessment of students' learning achievements.

Keywords: probability, candidate's ability, item difficulty, characteristic function, information function, ability estimation error, anchor items.

Goncharova, M.V.

At the business and education assessment technologies junction: assessing the qualifications of teachers and vocational trainers.

Abstract: The international experience in the field of assessment of the vocational training specialists is summarized. Vocational training standards are analyzed and the requirements towards the assessment of qualifications and assessment materials are described.

Keywords: vocational education, vocational trainer, assessing the competencies of vocational trainers

FOREIGN COLLEAGUES' EXPERIENCE

Simkin, V.N.

On «standards» in language testing

Abstract: In the article there is a brief description of attitudes towards the language testing «standards» issue in the international professional community. Different types of standards in relation to language testing are discussed as well as the attitude towards these issues in the Russian Federation.

Keywords: standards, language testing, quality, code of practice, guidelines for item writers, Common European Framework of Reference.

Baghdasaryan, A.G.

On a methodology for the final score aggregation in an assessment

Abstract. The article presents methodology for a final score of a summative assessment aggregation based on the «component» assessments procedures. The presented methodology can be applied for classroom formative assessments and the aggregation of the final competition score in a University entrance assessment.

Keywords: assessment methodology, assessment based on the «component» assessments procedures, classroom assessment, selection for HEI.

DISPUTE

Chiganashkin, V.M.

Arguments in favor of USE

Abstract. In a dispute with the USE opponents the author provides his arguments in support of this form of SSA: unity and objectivity of assessment; impartiality and efficiency; difficulty, which is achieved with the increase in number and variety of the exam items; unification of school-leaving and HEI entrance exams; ability of a school-leaver in any point of the country to apply for entrance at several HEIs.

Keywords: USE, MI, schools and classes with basic and advanced levels of subjects, statements against USE.

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Учредитель ООО «НИИ школьных технологий».
Свидетельство о регистрации СМИ ПИ №77-15870 от 07.07.2003 г.
109341, Москва, ул. Люблинская, д. 157, корп. 2
Тел.: (495) 345-52-00
E-mail: narob@yandex.ru
Распространение: no.podpiska@yandex.ru

Отпечатано в типографии НИИ школьных технологий
Тел. (495) 972-59-62

List of abbreviations

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Content**EDITOR-IN-CHIEF'S COLUMN**

Reshetnikova, O.A.

The main directions of the SSA results application

Abstract: The main directions of the analysis of the SSA results on Federal level are described in the article. The possibility of application of the integrated analysis of a group of assessment procedures for the management of educational quality is discussed. Also discussed are the specifics of adequate interpretation of the SSA results on the level the Russian Federation subjects.

Keywords: results of SSA, BSE, USE, directions of the analysis of USE results, application of the SSA results, educational quality management.

MEASURING INSTRUMENTS

Rokhlov, V.S., Petrosova, R.A.

Innovative model of the Biology USE in 2017

Abstract: The objective conditions for the transfer to the innovative model of Biology USE are analyzed in the article. Described are the basic conceptual approaches to the selection of structure and the content of measuring instruments. The samples of new examination items are presented, structural and content peculiarities of the Short Answer items are analyzed.

Keywords: Biology USE, innovative examination model, assessment objects, continuity between BSE and USE, models of Short Answer items.

Kaverina, A.A., Snastina, M.G.

On main directions of the 2017 Chemistry USE model development

Abstract: The main approaches to the construction of Chemistry examination model are described in the article. The directions of the examination development are analyzed. There are samples of the new Short Answer items. The approaches to the selection of the thematic blocks structure in the first part of the exam are explained.

Keywords: Chemistry USE, the development directions, examination structure, item construction, innovative models of items.

Demidova, M.Y., Gribov, V.A.

The development of the 2017 Physics USE model

Abstract: Based on the general approaches to the Physics USE construction under the requirements of the FSES, the main directions of the examination development are described in the article. The characteristics of the structure and content of the thematic blocks of the first part of the exam are presented. The samples of the new models of items are given.

Keywords: USE model, structure of a thematic block, new models of the Short Answer items, learning operations under assessment

ANALYSIS

Kalinova, G.S., Petrosova, R.A. and Rokhlov, V.S.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 Biology USE participants

Abstract: The Brief description of the 2016 Biology USE is presented as well as its main results. The results are analyzed according to the separate content blocks: "Biology as a science about live nature", "Cell as a biological system", "Organism as a biological system", "System and diversity of the organic world", "Health of a human being", "The evolution of live nature", "Ecosystems and their regularities". The achievements and deficits of the different level candidates are analyzed and methodological recommendations towards the improvement of teaching are given.

Keywords: Biology USE, 2016 Biology USE results, analysis according to the thematic blocs, analysis based on the candidates' ability levels, statistical characteristics of the examination items.

Kaverina, A. A., Snastina, M.G.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 Chemistry USE participants

Abstract: The Brief description of the 2016 Biology USE is presented as well as its main results. The results are analyzed according to the separate content blocks: "Theoretical foundations of Chemistry", "Inorganic Chemistry", "Organic Chemistry", "Learning methods in Chemistry. Chemistry and Life". The achievements and deficits of the different level candidates are analyzed and methodological recommendations towards the improvement of teaching are given.

Keywords: Chemistry USE, 2016 Chemistry USE results, analysis according to the thematic blocs, analysis based on the candidates' ability levels, statistical characteristics of the examination items.

Demidova, M.Y.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 Physics USE participants

Abstract: The Brief description of the 2016 Physics USE is presented as well as its main results. The results are analyzed according to the separate content blocks, and different activities: application of laws and formula in standard learning situations, analysis and interpretation of phenomena and processes, determining the direction of vector quantities, methodological skills, problem solution. The achievements and deficits of the different level candidates are analyzed and methodological recommendations towards the improvement of teaching are given.

Keywords: Physics USE, 2016 Physics USE results, analysis according to the thematic blocs, analysis based on the candidates' ability levels, statistical characteristics of the examination items.

Barabanov, V.V., Ambartsumova, E.M. and Dukova, S.E.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 Geography USE participants

Abstract: The Brief description of the 2016 Geography USE is presented as well as its main results. The results are analyzed according to the separate content blocks and learning activities. The achievements and deficits of the different level candidates are analyzed and methodological recommendations towards the improvement of teaching are given.

Keywords: Geography USE, 2016 Geography USE results, analysis according to the thematic blocs, analysis based on the candidates' ability levels, statistical characteristics of the examination items.

Content

Leschiner, V.R., Reutberg, M.A.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 Informatics and ICT USE participants

Abstract: The Brief description of the 2016 Informatics and ICT USE is presented as well as its main results. The results are analyzed according to the separate content blocks. The achievements and deficits of the different level candidates are analyzed. The peculiarities of Higher level items solution are discussed and methodological recommendations towards the improvement of teaching are given.

Keywords: Informatics and ICT USE, 2016 Informatics and ICT USE results, analysis according to the thematic blocs, analysis based on the candidates' ability levels, statistical characteristics of the examination items.

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Тел.: (495) 345-52-00
E-mail: narob@yandex.ru
Распространение: no.podpiska@yandex.ru

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Contents**ANALYSIS**

Tsybulko, I.P.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 Russian USE participants

Abstract: The Brief description of the 2016 Russian USE is presented as well as its main results. The results are analyzed according to the separate content blocks. The achievements and deficits of the different level candidates are analyzed. The peculiarities of the constructed response items are discussed and methodological recommendations towards the improvement of teaching are given.

Keywords: Russian USE, 2016 Russian USE results, analysis according to the thematic blocs, analysis based on the candidates' ability levels, statistical characteristics of the examination items.

Verbitzkaya, M.V., Makhmuryan, K.S., Simkin, V.N.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 English USE participants

Abstract: The Brief description of the 2016 English USE is presented as well as the main results of written and oral parts. The results are analyzed according to the separate skills in Listening, Reading, Use of English and Speaking. The achievements and deficits of the different level candidates are analyzed. The methodological recommendations towards the improvement of teaching are given.

Keywords: English USE, 2016 English USE results, analysis according to the language skills, analysis based on the candidates' ability levels, statistical characteristics of the examination items.

Zinin, S.A., Novikova, L.V. and Gorokhovskaya, L.N.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 Literature USE participants

Abstract: The Brief description of the 2016 Literature USE is presented as well as its main results. The results are analyzed according to the separate content blocks: «From the 18th century literature», «From the Literature of the first half of the 19th century», «From the Literature of the second half of the 19th century», «The 20th century Literature». The achievements and deficits of the different level candidates are analyzed. The methodological recommendations towards the improvement of teaching are given.

Keywords: Literature USE, 2016 Literature USE results, analysis according to the thematic blocs, analysis based on the candidates' ability levels, statistical characteristics of the examination items.

Contents

Artasov, I.A.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 History USE participants

Abstract: The Brief description of the 2016 History USE is presented as well as its main results. The results are analyzed according to the separate content blocks: chronology knowledge, knowledge of terminology and personalities, work with the sources. The achievements and deficits of the different level candidates are analyzed. The peculiarities of the constructed response items are discussed and methodological recommendations towards the improvement of teaching are given.

Keywords: History USE, 2016 History USE results, historic and cultural standard, analysis according to the thematic blocs, analysis based on the candidates' ability levels, statistical characteristics of the examination items.

Liskova, T.E.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 Social Studies USE participants

Abstract: The Brief description of the 2016 Social Studies USE is presented as well as its main results. The results are analyzed according to the separate content blocks. The achievements and deficits of the different level candidates are analyzed. The peculiarities of the constructed response items are discussed and methodological recommendations towards the improvement of teaching are given.

Keywords: Social Studies USE, 2016 Social Studies USE results, analysis according to the thematic blocs, analysis based on the candidates' ability levels, statistical characteristics of the examination items.

Yaschenko, I.V., Semenov, A.V., Vysotskij, I.R.

Methodological recommendations for the teachers based on the analysis of typical mistakes made by the 2016 Mathematics USE participants

Abstract: The Brief description of the 2016 Mathematics USEs (basic and advanced levels) is presented as well as their main results. The results are presented for each level. The achievements and deficits of the different level candidates are analyzed. The methodological recommendations towards the improvement of teaching are given.

Keywords: Mathematics USE, 2016 Mathematics USE results, analysis based on the candidates' ability levels, statistical characteristics of the examination items.