

AI-FARABI KAZAKH NATIONAL UNIVERSITY

**Department of Biology and Biotechnology, Department of Biophysics,
Biomedicine and Neurosciences**

Program of the final exam for the discipline

«MUUP6305»

«Methodology and management of the training process »

Specialty «7M01504»

Course – 2

Semester –6

Number of credits – 6

Almaty 2024

A.N. Tormanova, acting assistant of professor of the Department of Biophysics, Biomedicine and Neurosciences, compiled the program of the final exam in the discipline «Methodology and management of the training process».

Reviewed and approved at the meeting of the Department of Biophysics, Biomedicine and Neurosciences.

Minutes of meeting №06 dated by October 10, 2023

Head of Department

Kustubayeva A.M.

PhD, Professor

Schedule of the exam. The exam is held according to the schedule of the autumn session of the Department of Biophysics, Biomedicine and Neurosciences. The exam schedule is published in advance in the UC Univer system.

Forms of examination. Standard oral examination: traditional-answers to questions (or in case of online format will held on the Zoom platform). Student takes the exam in real time "here and now". Students' answers are heard by an examination committee consisting of the chairman of the committee, a lecturer, and alternate instructors. Grades for the exam are awarded by the committee on the basis of a collegial decision. The chair of the committee afterwards enters the grades into the register and closes it.

Control of testing - on-line scoring.

Quantity - 10-30 questions for checking how to use knowledge by the students (no matter the amount of them), regardless of any loan for any educational levels. In one question the RO can be combined.

Students must prepare for the exam 30 minutes prior to the start of the exam in accordance with the requirements of the scoring instructions.

The order of the autumn session online:

The format of the exam is an oral response remotely using the Zoom platform. The exam begins with a demonstration of the learner's identity document, his/her desk, so that the committee members can make sure that on the desk, except for clean sheets of paper and a pen, there are no foreign objects.

The student then demonstrates his or her gadget screen to the committee members and opens the University platform in the presence of the committee members to receive exam questions. Each student opens the exam tickets just before he or she prepares an answer in the order of priority.

The process of taking an oral exam online by a student involves the automatic creation of an exam ticket for each student, which must

give an oral answer in front of the members of the committee.

The total number of questions: 10-30 to test students' ability to use knowledge (regardless of number), regardless of credit for any levels of education. ROs can be combined in one question.

Test results can be revised based on the results of exam video (in case of remote exam format) that must be stored at least 3 months after exam. If a student violates the rules of the test, his result will be annulled.

Topics of the final exam in the discipline « **Methodology and management of the training process** »

1. **MODULE 1 Background and general provisions in the management of the training process**

Introduction. Pedagogical management - business processes and communications. Education and upbringing - the main goals of the methodology of educational process management. Criteria and principles of selection of the content of the educational process - as part of the development of management methodology. State Common Core Learning Standards. Detailed analysis and comments. Technology of management of the general education process. Modular system of educational process organization: goals and objectives. Prospects and achievements. Pedagogical analysis. Pedagogical technologies and collaborative ways of learning. Planning. Motivation for self-discovery as part of the learning process. Intensive methods and means of guidance and control. Decision-making.

2. **MODULE 2 Components of learning management**

Expected learning outcomes as part of the management of the learning process on the example of the discipline "Biology". Organization of training. Delegation of authority - basic principles. Model of "three-step" algorithm of task delegation. Requirements for the organization and management of the training process. Motivation of personnel as a participant of the learning process. Motivation concepts as a management tool. Target benchmarks and models of professional competencies - methodological basis for managing the educational process. Compliance requirements, corporate ethics and reputation of the educational institution. Discipline fulfillment of training process. General issues of the organization of the educational process in relation to the current situation. Experience and mistakes. Pedagogical control.

MODULE 3 Scope of application of business principles in educational process management

Practical applicability of the methodology of educational process management in organizations of different directions. Pedagogical monitoring - functionality. Types, system, technology. Innovative approaches applicable to the learning management process. Diversity and flexibility of formats, training models - as a basis for the development of learning process management methodology. Pedagogical marketing. Tasks of marketing in the educational process. Marketing tools.

Examples of questions

Evaluation Criteria

Percentage minimum scores are given below:

95% - 100%: A	90% - 94%: A-	
85% - 89%: B+	80% - 84%: B	75% - 79%: B-
70% - 74%: C+	65% - 69%: C	60% - 64%: C-
55% - 59%: D+	50% - 54%: D-	0% -49%: F

EVALUATION CRITERIA

«EXCELLENT» - the student possesses knowledge of the subject in full volume of the curriculum, deeply enough comprehends discipline; independently, in a logical sequence and exhaustively answers all questions of the ticket, thus emphasized the most essential, is able to analyze, compare, classify, generalize, concretize and systematize the studied material, to allocate in it the main thing; to establish causal relations; accurately forms answers, freely reads results of analyses and other researches and solves situational problems.

"GOOD" - a student has knowledge of the discipline almost to the full extent of the program (there are knowledge gaps only in some, especially complex sections); does not always highlight the most significant, however, does not make serious mistakes in the answers; is able to solve light and medium gravity situational problems; is able to interpret laboratory and instrumental research in excess of the mandatory minimum.

"SATISFACTORY" - a student possesses the main volume of knowledge in the discipline; shows difficulties in independent answers, operates with inaccurate formulations; in the process of answers mistakes are made in the essence of questions. The student is able to solve only the easiest tasks, has only the obligatory minimum of research methods.

"NON - SATISFACTORY " - the student has not mastered the required minimum knowledge of the course.

Literatures and resources

1. Tkacs Nancy C., PhD, RN; Linda L. Herrmann, PhD, RN; Johnson, Randall L., PhD, RN Advanced Physiology and Pathophysiology March 2020
2. John Cook, Phil Warren. Cellular Pathology: An Introduction to Techniques and Applications. 3rd Edition, Scion. 2015
3. Course of lectures on pathophysiology: a textbook for students of medical universities: in four parts / Yu.Yu. Byalovsky [and others]; ed. by Yu.Yu.Byalovsky, V.V. Davidov - Ryazan, 2018. - Ч. 1. - 261 с.

Internet resources (at least 3-5)

Literature: main, additional.

1. "On Approval of State Compulsory Standards of Education for all levels of education" Order of the Ministry of Education and Science of the Republic of Kazakhstan from 31.10.2018. № 604
 2. on Education - the Law of RK from 27.07.2017 № 319-III.
 3. Annex No. 7 to the Decree of the Government of the Republic of Kazakhstan from 13.05.2016 № 292
 4. Bazavlutskaya L.M. Pedagogical management: textbook / Chelyabinsk: Izdvo ZAO "Library A. Miller", 2017. - 97 c
 5. Goncharov M.A. Fundamentals of management in education. textbook / - 3rd ed., ster. - M. : KNORUS, 2016. - 476 c
 6. Sadvakasova Z.M. Pedagogical management. Study guide. 2-2e ed. supplement. - Almaty, 2012. - 187 c.
 7. Ryblova A.N. Technology of management of educational process in the system of continuous education. Training and methodical manual - Saratov: Publishing Center "Nauka", 2009. - 96 c
 8. Academic Policy of Al-Farabi Kazakh National University - current version
- Professional scientific databases**
1. <https://cyberleninka.ru/>

Internet resources

- 1 . <http://elibrary.kaznu.kz/ru>
 - 2 <http://lib.teacher.msu.ru/pub/2017>
 - 3 <https://students-library.com/library/read/60508-metody-priemy-sredstva-organizacii-i-upravleniya-pedagogicheskimi-processami>
 - 4 http://usu.kz/upravlenie_uchebnym_protseptom.php
 - 5 <http://student39.ru/lector/Metody-priemy-i-formy-obucheniya/>
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CRITERIA-BASED ASSESSMENT RUBRICATOR*(for all forms except standard oral/written testing)*

Discipline: _____. Form: _____. Platform: _____

№	Score Criteria	DESCRIPTORS				
		«Excellent»	«Good»	«Satisfactory»	«Unsatisfactory»	
		90-100 %	70-89 %	50-69 %	25-49 %	0-24 %
1.						

RUBRICATOR FOR CRITERIAL ASSESSMENT OF FINAL CONTROL*(for standard oral/written forms)*

Discipline: «Age-related physiology». Form: Oral standard. Platform: UC Univer system

№	Score	DESCRIPTORS				
		«Excellent»	«Good»	«Satisfactory»	«Unsatisfactory»	
		90-100 %	70-89 %	50-69 %	25-49 %	0-24 %
1.question	1.Knowledge and understanding of the theory and course concepts.	The questions have been thoroughly answered, illustrated visual examples where appropriate; The answers are presented in scientific technical language, all physico-technical terms and concepts are used correctly and disclosed correctly. To be able to explain the basic concepts of the course;	The questions are generally correct answers, but with individual inaccuracies that are not fundamental character. Not all physical-technical terms are used correctly, there are some incorrect statements and errors. Answers are not	The answers to the questions are fragmentary, correct conclusions interspersed with incorrect ones. Missing content blocks physical-technical of the physics-technical profile necessary for full disclosure of the topic. The student as a whole oriented in the topics of the course, but has problems with	The answers don't correspond the content of the questions. Key concepts of the course key concepts for the course, contained in questions are interpreted incorrectly	Answers to questions are absent; ignorance or lack of understanding the student does not know or understand most or the most important part educational material. Violation of the Rules final control.

		the relationship between the structure and function of during aging process	illustrated adequately adequately	disclosure of specific issues		
	2.Application selected methodology and technology to specific applied tasks	Technology and course methodology is applied in a profound meaningfulness, taking into account taking into account the specifics direction of training students; scientific physical concepts freely apply to the task at hand with followed by logical and evidentiary disclosure of the main problem. Defines how and why by using acquired knowledge to find explanations and causes of differences in functional states of cells and organs taking into account the relationship of structure and function during aging	Course methodology and knowledge acquired by the student is poorly integrated and adapted to the solution specific practical tasks proposed in the ex. ticket; the student's knowledge adapted; answers are characterized by weak structured, in there are insignificant factual errors which are able to correct independently, thanks to a leading question;	The tools of the course are used superficially, characterized by little content, there are inaccuracies in the answers, the logic misleading, lacks meaningfulness provided material, there is no understanding of cross-curricular links.	Incorrectly applies essence of the discipline of age related physiology makes significant factual errors, that the student cannot correct independently, for most of the additional questions on the content the student finds it difficult to give an answer or does not give correct answers.	Inability to apply knowledge to solve problems and explanations physical phenomena; when answering (to one admits more than 3-4 gross makes more than 3-4 gross errors that he/she cannot correct even with the help of PPP; has not fully mastered material. Violation of the Rules final control
2 question	3.Evaluating and analyzing applicability selected methodology to proposed practical problem, justification obtained result	Having the ability to Integration, validity and analyze methods and technology on a particular topic, structuring answer, to analyze no less than 3 statements existing theories, scientific schools, directions on question examination	Integration and analysis application of the methods and course technology with subsequent utilization visual materials to consolidate their reasoning through using scientific and technical terms with making minor errors when reproducing knowledge; analyze 2	Superficial substantiation regularities and principles of physical phenomena, weak application of the main amount of material in accordance with the program with difficulties in its independent reproduction and prompting questions	Lack of justification and analysis of the application methods and technology course, manifestation of difficulty in answering to questions of a reproductive nature.	Inability to apply knowledge to solve problems and explanations physical phenomena; when answering (to one admits more than 3-4 gross makes more than 3-4 gross errors that he/she cannot correct even with the help of PPP; has not fully mastered material. Violation of the Rules

		ticket, answers illustrated examples and visual materials, including including from their own practice of the learner; demonstrates the ability dialog and enter scientific discussion. Defines how and why by using acquired knowledge to find explanations and causes of differences in functional states of cells and organs taking into account the relationship of structure and function during aging	statements existing theories, scientific schools, directions on the question examination ticket			final control
	4. Ability to synthesize data from different fields of science in relation to finding a solution to a logical task or problematic issue	Eager to find and choose appropriate research technologies and related activities to find the best solution and explanation for the task and case solving. Give at least 1 appropriate example or argument in order to confirm final conclusion or answer	Integration and analysis application of the methods and course technology with subsequent utilization visual materials to consolidate their reasoning through using scientific and technical terms with making minor errors when reproducing knowledge; analyze 2 statements existing theories, scientific schools, directions on the question examination ticket	Superficial substantiation regularities and principles of physical phenomena, weak application of the main amount of material in accordance with the program with difficulties in its independent reproduction and prompting questions	Lack of justification and analysis of the application methods and technology course, manifestation of difficulty in answering to questions of a age related physiology.	Inability to apply knowledge to solve problems and explanations physical phenomena; when answering (to one admits more than 3-4 gross makes more than 3-4 gross errors that he/she cannot correct even with the help of PPP; has not fully mastered material. Violation of the Rules final control
3 question	5. Mastering the skills of	Fluent mastery of the theoretical material of the	Integration and analysis application of the methods	Superficial substantiation	Lack of justification and analysis of the application	Defines how and why by using acquired knowledge

examination and analysis of experimental results related to age-related physiology and ensuring healthy lifestyles and promoting wellbeing for all at all ages	course, with accurate and illustrative examples at least 1 on the substance of the question. Increases the ability to plan, execute, and evaluate learning episodes using gained knowledge about cells, organs and whole organism. Ability to apply modern approaches to solve research requests and be able to create scientific models or case study for educational purposes	and course technology with subsequent utilization visual materials to consolidate their reasoning through using scientific and technical terms with making minor errors when reproducing knowledge; analyze 2 statements existing theories, scientific schools, directions on the question examination ticket	regularities and principles of physical phenomena, weak application of the main amount of material in accordance with the program with difficulties in its independent reproduction and prompting questions	methods and technology course, manifestation of difficulty in answering to questions of a age related physiology.	to find explanations and causes of differences in functional states of cells and organs taking into account the relationship of structure and function during aging

Formula for calculating the final grade:

Final grade (FI) = (%1+%2+%3+%4+%5+%6, etc.) / K, where % is the level of task completion by criterion, K is the total number of criteria.

Example of calculating the final score

Based on percentage obtained during the calculation, we can compare the score with the rating scale.

72 points range from 70 points to 89 points, which corresponds to the “Good” category according to the grading scale.

№	Score	«Excellent»	«Good»	«Satisfactory»	«Unsatisfactory»	
		90-100 %	70-89%	50-69%	25-49%	0-24%
1.	Criteria 1	100				
2.	Criteria 2		75			
3.	Criteria 3			60		
4.	Criteria 4				45	
5.	Criteria 5	100				
6.	Criteria 6				49	
	Final %	200	75	60	94	200+ 75 + 60 + 94 = 429 429 / 6 criteria=71,5 Final score, as % = 72

Thus, with this calculation, the project will be rated **72 points “Good”** in accordance with the point-rating letter system for assessing educational achievements students with their transfer to the traditional grading scale and ECTS.