

**MINISTRY OF HEALTH OF UKRAINE
NATIONAL UNIVERSITY OF PHARMACY
DEPARTMENT OF PHYSIOLOGY AND PATHOLOGICAL PHYSIOLOGY**

Approved at the Department Meeting
Physiology and Pathological Physiology
Examination Record No.2 from 02.09.2022

Department Chairman _____
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**Criteria for assessing knowledge and skills
of applicants for higher education in the subject "Pathological Physiology"
specialty "226 Pharmacy, industrial pharmacy"
educational program "Pharmacy (4.10)" (3 year)**

KHARKIV-2022

Criteria and evaluation order of educational outcomes

The study of the educational component takes place over two semesters, each of which ends with a semester test. Semester grades are based on the current academic performance of the student. The study of the educational component ends with a semester exam.

Evaluation system for the educational component

The results of semester control in the form of a semester test are evaluated on a 100-point, undifferentiated scale ("passed", "failed") and on the ECTS scale.

Points for the educational component are awarded according to the following ratio:

Types of evaluation	Number of points
Module 2	
Content module 2 1. Evaluation of topics 19-23: in-class work (oral questioning, test tasks, practical assignments or case studies). 2. Control of the content module 1: theoretical questions and test tasks.	30-50
Content module 2 1. Evaluation of topics 24-27: in-class work (oral questioning, test tasks, practical assignments or case studies). 2. Control of the content module 1: theoretical questions and test tasks.	30-50
Content module 2 1. Evaluation of topics 28-30: in-class work (oral questioning, test tasks, practical assignments or case studies). 2. Control of the content module 1: theoretical questions and test tasks.	30-50
Semester control of module 2 ($\Sigma CM1+CM2+CM3$)/1.5	60-100

The independent work of higher education students is assessed during the current control and during the control of the content module.

Evaluation of the performance of higher education students for each of the planned types of work in the classroom and during control is carried out according to the following criteria:

Types of work for which the applicant receives points	Maximum number of points per type of work	Evaluation criteria
work in classes (19-23) of content module 4 (min-18- max30) work in classes (24-27) of content module 5 (min-21- max 35) work at classes (28-30) of content module 6 (min-15- max 25)		
Oral survey	2	2 points - the student gives comprehensive answers to theoretical questions of the teacher; shows comprehensive and in-depth knowledge of theoretical material, demonstrates knowledge of additional literature on the topic of the class; thinks logically and constructs an answer.
		1,5 points - the student has mastered the theoretical material well, but makes certain inaccuracies and mistakes in the logic of the presentation of theoretical content, which he or she has

		<p>eliminated with the help of the teacher.</p> <p>1 points - the higher education student has basically mastered the theoretical knowledge of the educational component, but answers unconvincingly, additional questions cause uncertainty.</p> <p>0,5 points - the student has a low level of theoretical knowledge, confuses concepts, and additional questions indicate a lack of stable knowledge.</p> <p>0 points - the student has not mastered the educational material of the educational component, does not know scientific facts, definitions, and has little or no knowledge of primary sources and recommended literature.</p>
<i>preparation of test tasks</i>	1	1 point - the applicant for higher education gave correct answers to 90-100% of the test tasks.
<i>solving a situational problem, mastering practical skills</i>	2	<p>2 points - the higher education student demonstrates a high level of mastery of practical skills; makes a detailed analysis and provides correct answers to situational tasks on the topic.</p> <p>1,5 points - the student has mastered the practical skills, but makes certain inaccuracies and mistakes when analyzing the situational task.</p> <p>1 points - the applicant for higher education does not accurately answer questions of a practical nature; when performing a situational task, he/she answers 50% of the questions.</p> <p>0,5 points - the higher education applicant has not mastered practical skills; when performing a situational task, he/she answers 40% of the questions, is unable to justify the answer based on the data provided.</p> <p>0 points - practical skills are not formed; the higher education student does not provide answers to the questions of the situational task.</p>
Control of content modules 4 (min-12- max20)		
<i>oral interview or written work</i>	15	<p>5 points for 1 question</p> <p>5 points - the student gives comprehensive answers to theoretical questions of the teacher; shows comprehensive and in-depth knowledge of theoretical material, demonstrates knowledge of additional literature on the topic of the class; thinks logically and constructs an answer.</p> <p>4 points - the student has mastered the theoretical material well, but makes certain inaccuracies in the logic of the presentation of theoretical content.</p> <p>3 points - the applicant has satisfactorily mastered the theoretical material, but makes mistakes in the logic of the presentation of theoretical content.</p> <p>2 points - the higher education student has basically mastered the theoretical knowledge of the educational component, but answers unconvincingly, additional questions cause uncertainty.</p> <p>1 points - the student has a low level of theoretical knowledge, confuses concepts, and additional questions indicate a lack of stable knowledge.</p>

		0 point - the student has not mastered the educational material of the educational component, does not know scientific facts, definitions, and has little or no knowledge of primary sources and recommended literature.
<i>testing</i>	5	One correct answer is worth 0.25 points. 20 tests x 0.25 = 5 points
Control of content modules 5 (min-9- max15)		
<i>oral interview or written work</i>	9	3 points for 1 question
		3 points - the student gives comprehensive answers to theoretical questions of the teacher; shows comprehensive and in-depth knowledge of theoretical material, demonstrates knowledge of additional literature on the topic of the class; thinks logically and constructs an answer.
		2 points - the student has mastered the theoretical material well, but makes certain inaccuracies and mistakes in the logic of the presentation of theoretical content.
		1 point - the student has a low level of theoretical knowledge, confuses concepts, and additional questions indicate a lack of stable knowledge.
		0 points - the student has not mastered the educational material of the educational component, does not know scientific facts, definitions, and has little or no knowledge of primary sources and recommended literature.
<i>testing</i>	6	One correct answer is worth 0.25 points. 20 tests x 0.3 = 6 points
Control of content module 6 (min-15- max25)		
<i>oral interview or written work</i>	20	5 points for 1 question
		5,0 points - the student gives comprehensive answers to the teacher's theoretical questions; demonstrates comprehensive and deep knowledge of theoretical material, demonstrates knowledge of additional literature on the topic of the class; thinks logically and constructs an answer.
		4 points - the student has mastered the theoretical material well, but makes certain inaccuracies in the logic of the presentation of theoretical content.
		3 points - the applicant has satisfactorily mastered the theoretical material, but makes mistakes in the logic of the presentation of theoretical content.
		2 points - the higher education student has basically mastered the theoretical knowledge of the educational component, but answers unconvincingly, additional questions cause uncertainty.
		1 point - the student has a low level of theoretical knowledge, confuses concepts, and additional questions indicate a lack of stable knowledge.
<i>testing</i>	5	One correct answer is worth 0.25 points. 20 tests x 0.25 = 5 points

Scoring scheme and distribution of points

Current testing and self-study						
Module 2						
Content module 4						
T19	T20	T21	T22	T23	CCM 4	
3-5	3-5	3-5	3-5	6-10	12-20	30-50
Content module 5						
T24	T25	T26	T27	CCM 5		
6-10	3-5	6-10	6-10	9-15		30-50
Content module 6						
T28	T29	T30		CCM 6		
6-10	6-10	3-5		15-25		30-50
Total for studying M2: ($\Sigma CM4+CM5+CM6$)/1,5						60-100

Based on the results of studying the topics of the discipline, an overall grade is formed by the sum of the current rating and the result of the final module control, respectively. The higher education applicant is assigned a grade in accordance with the following scale of knowledge assessment:

Total points	Marks ECTS	Score on the national scale	
		mark	credit
90 – 100	A	perfectly	satisfactorily
82-89	B	good	
74-81	C		
64-73	D	satisfactorily	
60-63	E		
35-59	FX	unsatisfactorily	satisfactorily

Exam

An applicant for higher education is considered admitted to the exam in the academic discipline if he attended all the classroom classes provided for by the curriculum, performs all types of work provided for by the work program of the academic discipline and, when studying it during the training period, scored at least the minimum score of 60 points. The maximum number of points that a student can score for current academic activity is 100 points.

The exam is conducted in the form of a written work, during which the theoretical and practical skills of applicants for higher education are assessed.

The card consists of 4 theoretical and 1 practical questions. Each question is rated from 12 to 20 points.

The name of the task	Assessment points
Assessment of the theoretical question	12-20
The applicant for higher education has firmly acquired theoretical material, has a deep and comprehensive knowledge and gives the contents of the question, using the main provisions of the recommended literature, logically thinks and builds the answer, freely uses the acquired theoretical knowledge. No mistakes. The question is 100% solved.	20
The applicant for higher education has firmly acquired theoretical material, knows and gives the content of the question, logically thinks and builds the answer, freely uses the acquired theoretical knowledge, but admits certain inaccuracies in the logic	19

of the presentation of theoretical material. The question is 95% solved.	
The applicant for higher education is well versed in the theoretical material, possesses most knowledge of the recommended literature, but admits inaccuracies in the logic of the presentation of theoretical material and definitions. The question is 90% solved.	18
The applicant for higher education is well acquainted with theoretical material, knows and gives the content of the subject, but admits certain inaccuracies in the logic of the presentation of theoretical material, definitions, formulations. The question is 85% solved.	17
The applicant for higher education is well versed in theoretical material, gives the essence of the matter, but admits errors in logic of theoretical material, makes errors in definitions, classifications. The question is 80% solved.	16
The applicant for higher education has satisfactorily absorbed the theoretical material, sets out the essence of the matter, but is unconvincing, admits errors in the presentation of the material. The question is 75% solved.	15
The applicant for higher education has satisfactorily absorbed the theoretical material, sets out the essence of the question, but is unconvincing, admits errors in definitions, classifications, stage descriptions. The question is 70% solved.	14
The applicant for higher education has satisfactorily absorbed the theoretical material, gives the substance of the matter, but admits errors in the presentation of the material. The question is 65% solved.	13
The applicant for higher education has not fully absorbed the theoretical material, does not answer the questions unconvincingly, confuses the concepts. Inaccuracies and gross mistakes in the presentation of the material. There is no response logic. The question is 60% solved.	12
The applicant for higher education has not absorbed theoretical material, does not know scientific facts, definitions, is not guided in recommended literature; there is no scientific thinking. The question is not solved.	0
The name of the task	Assessment points
<i>Assessment of the practical issue</i>	12-20
The higher education applicant answered all 9 questions of the problem. The question is 100% solved	20
The applicant for higher education answered correctly the first question of the problem and seven more questions. All other questions were answered in part or with mistakes.	19
The applicant for higher education answered correctly the first question of the task and the other six questions. All other questions were answered in part or with mistakes.	18
The applicant for higher education answered correctly the first question of the task and five questions. All other questions were answered in part or with mistakes.	17
The applicant for higher education answered correctly the first question of the problem and four questions. All other questions were answered in part or with mistakes.	16
The applicant for higher education answered correctly the first question of the problem and three questions. All other questions were answered in part or with mistakes.	15
The applicant for higher education answered correctly the first question of the task and two questions. All other questions were answered in part or with mistakes.	14
The applicant for higher education answered correctly the first question of the task	13

and another question. All other questions were answered in part or with mistakes.	
The applicant for higher education answered the first question of the task correctly. All other questions were answered in part or with mistakes.	12
The applicant for higher education did not provide the correct answer to the first question, which does not make it possible to evaluate all the other answers at all.	0