

Organization of credit and examination.
CRITERIA FOR EVALUATING THE STUDENTS' RESULTS OF LEARNING
ACTIVITIES AT THE DEPARTMENT OF NORMAL PHYSIOLOGY OF BSMU
ON A TEN-POINT SCALE

INFORMATION SECTION

1. Organization of credit and exam in the discipline

Credit and exam for the discipline "Normal Physiology" are organized in accordance with the Rules of the certification of students, cadets, and course students in mastering the content of higher education educational programs approved by Decree of the Ministry of Education of the Republic of Belarus of 29.05.2012 № 53.

Students are admitted to **the credit** if they do not have absences from practical classes and lectures (or they have worked off the missed classes and lectures), they have not violated discipline and safety rules, and they have their protocols of practical classes completed and signed. In other cases, the student is not allowed to pass the credit test, which is regarded by the Dean of the Faculty as a failure to pass the test without a valid reason.

The credit is held in the form of computer-based testing, which consists of 50 test questions, covering all sections of the discipline studied during the semester. The test takes 28 minutes to complete.

Credit is given to a student who has mastered the course material and passed the credit (final) test with a positive mark in accordance with the approved by the department scale of marks for computer testing.

If a student fails a final test, he or she will be given a failing grade ("not credited").

To pass the credit computer test, one attempt is given to students. Retake of the test is carried out only with the permission of the dean's office (with individual credit-exam permission sheets of certification), and should be taken by a commission.

Students are admitted to **the exam** if they do not have absences from practical classes and lectures (or have worked off the missed classes and lectures), have not violated discipline and safety rules, have their protocols of practical classes completed and signed, and they successfully passed the test for the previous semester.

Examination of the academic discipline is held in **two stages**:

Stage 1 is a computer test, consisting of 60 questions, which will take 40 minutes to complete. After completing the computer test, a total mark is calculated for the first stage of the exam, which is the arithmetic average of the mark for the computer test and the rating mark. Students who received an unsatisfactory score (3.99 or less) on the first stage of the exam will not be allowed to take the second stage.

Stage 2 is an oral answer on examination tickets, questions of which are annually revised and approved at the meeting of the department.

To clarify the examination mark examiners may ask the student additional questions in accordance with the discipline program. The number of additional questions should not exceed three. It is recommended to begin the answer to the questions of the examination ticket with the definition of general concepts. Classifications, graphs, charts, etc. necessary for the answers should be written on the examination sheet.

At the exam, the student presents the completed practical book in the discipline.

Structure of the examination ticket

Examination ticket includes 2 questions (the 1st question on the section "Mechanisms of regulation of functions", the 2nd one – on the methods of physiological functions investigation, for students studying for specialties "General Medicine" and "Pediatrics", supplemented by a situational problem).

CRITERIA FOR ASSESSING STUDENTS' KNOWLEDGE

Ten (10) points are awarded to the student who demonstrated:

- systematized, deep and complete knowledge in all sections of the curriculum of the institution of education "Belarusian State Medical University" in the academic discipline "Normal Physiology", as well as the major issues beyond it;
- accurate use of scientific terminology, knowledge of standards of the most important indicators of homeostasis of the internal environment, blood, cardiovascular, respiratory and other systems of the body.
- competent, logically correct presentation of the answer to the questions, involving knowledge obtained in related biomedical disciplines (biology, histology, anatomy, biochemistry, physics, etc.)
- a pronounced ability to independently and creatively solve non-standard and complex situational tasks, integrating knowledge from various sections of the discipline and related medical and biological disciplines;
- full and deep assimilation of basic and additional literature on normal physiology;
- the ability to freely navigate in the theories, concepts and trends in the studied discipline and give them an analytical assessment, to use the scientific achievements of other disciplines;
- ability to independently and creatively perform practical skills, knowledge of the methods of their performance with its physiological justification, ability to independently analyze and give a comprehensive physiological assessment of the results obtained, to demonstrate the practical application of the techniques used;
- creative independent work in practical classes, active creative participation in group discussions, a high level of culture of performing tasks.

9 (nine) points are earned by the student who demonstrated:

- systematized, deep and complete knowledge of all sections of the university curriculum in the academic discipline, presented with the involvement of knowledge obtained in related biomedical disciplines (biology, histology, anatomy, biochemistry, physics, etc.);
- accurate use of scientific terminology; knowledge of standards of the most important indicators of homeostasis of the internal environment, blood, cardiovascular, respiratory and other systems of the body;
- competent, logically correct presentation of the answer to questions;
- mastery of the tools of the discipline, the ability to use them effectively in the formulation and solution of scientific and professional problems;
- the ability to independently and creatively solve complex problems in a non-standard situation within the framework of the university curriculum in the academic discipline, to solve complex situational problems, demonstrating the connection of knowledge from different sections of the discipline;

- full assimilation of basic and additional literature recommended by the university curriculum on normal physiology;
- ability to navigate the theories, concepts and trends in the studied discipline, and give them a critical assessment;
- systematic, active independent work in practical classes, creative participation in group discussions, a high level of culture of performing tasks;
- who made minor mistakes when answering, such as inaccuracies in wording, terminology (no more than one mistake on each of the questions of the examination ticket).

Eight (8) points are deserved by the student who demonstrated:

- systematized, deep and complete knowledge of all sections of the university curriculum in the academic discipline, presented with the involvement of knowledge obtained in related biomedical disciplines (biology, histology, anatomy, biochemistry, physics, etc.);
- accurate use of scientific terminology; knowledge of standards of the most important indicators of homeostasis of the internal environment, blood, cardiovascular, respiratory and other systems of the body;
- competent, logically correct presentation of the answer to questions;
- mastery of the tools of the discipline, the ability to use them effectively in the formulation and solution of scientific and professional problems;
- the ability to independently and creatively solve complex problems in a non-standard situation within the framework of the university curriculum on the academic discipline, independently solve situational problems using knowledge from related sections of the discipline;
- full assimilation of basic and additional literature recommended by the university curriculum on normal physiology;
- Ability to navigate the theories, concepts and trends in the study discipline and give them a critical assessment;
- systematic, active independent work in practical classes, creative participation in group discussions, a high level of culture of performing tasks;
- who made minor mistakes when answering, such as inaccuracies in wording, terminology (no more than two mistakes on each of the questions of the examination ticket).

Seven (7) points are awarded to a student who demonstrated:

- systematized, deep and complete knowledge of all sections of the university curriculum in the academic discipline, presented with the involvement of knowledge obtained in related biomedical disciplines (biology, histology, anatomy, biochemistry, physics, etc.);
- accurate use of scientific terminology; knowledge of standards of the most important indicators of homeostasis of the internal environment, blood, cardiovascular, respiratory and other systems of the body;
- competent, logically correct presentation of the answer to questions;
- mastery of the tools of the discipline, the ability to use them effectively in the formulation and solution of scientific and professional problems;
- the ability to independently solve complex problems in a non-standard situation within the framework of the university curriculum in the academic discipline, and

independently solve typical situational problems using knowledge from related sections of the discipline;

- full assimilation of basic and additional literature recommended by the university curriculum on normal physiology;
- ability to navigate the theories, concepts and trends in the study discipline and give them a critical assessment;
- systematic, active independent work in practical classes, creative participation in group discussions, a high level of culture of performing tasks;
- who made insignificant mistakes (no more than three on each of the examination questions) or no more than one significant mistake (incorrect description of physiological functions, their realization or regulation mechanisms; errors in the technique of performing a practical skill that could substantially affect the obtained result and/or incorrect interpretation of the obtained result).

Six (6) points are given to a student who demonstrated:

- sufficiently complete and systematic knowledge in the scope of the university curriculum in normal physiology;
- use of necessary scientific terminology; knowledge of the norms of the most important homeostasis indicators of the internal environment, blood, cardiovascular, respiratory and other systems of the body;
- literate, logically correct presentation of the answer to questions, the ability to make generalizations and justified conclusions;
- mastery of the tools of the academic discipline, the ability to use them in solving scientific and professional problems;
- the ability to independently apply typical solutions within the framework of the university curriculum for the academic discipline, independently solve typical situational problems within the relevant section of the discipline;
- assimilation of the basic literature recommended by the university curriculum in normal physiology;
- the ability to navigate basic theories, concepts and trends in the discipline studied and give them a comparative assessment;
- active independent work in practical classes, periodic participation in group discussions, a high level of culture of performing tasks.
- positive results of certification in practical classes;
- who made insignificant mistakes and no more than two significant mistakes (fundamental errors, such as ignorance of the exact mechanisms of functioning of physiological systems, inability to show and explain in detail how to work with a tonometer, pulse oximeter, Forster's perimeter, etc.).

Five (5) points are given to the student who demonstrated:

- sufficient knowledge within the scope of the university curriculum in normal physiology;
- use of scientific terminology, knowledge of the norms of the most important homeostasis indicators of the internal environment, blood, cardiovascular, respiratory and other systems of the body;
- literate, logically correct presentation of the answer to questions, the ability to draw conclusions;

- mastery of the tools of the academic discipline, the ability to use them in solving educational and professional problems;
- ability to independently apply typical solutions within the framework of the university curriculum for the academic discipline, with a little help from the teacher to solve typical situational problems within the relevant section of the discipline;
- assimilation of the basic literature recommended by the university curriculum for the academic discipline;
- ability to navigate basic theories, concepts and trends in the discipline studied and give them a comparative assessment;
- insufficient independent work in practical classes, fragmented participation in group discussions, insufficient level of culture of performing tasks.
- low results of certification in practical classes.
- mistakes on every issue, including significant errors.

Four (4) points are given to the student who demonstrated:

- fragmentary knowledge of the studied section of the discipline;
- insufficiently competent and clear presentation of the answer to questions, the presence of errors in the use of terminology;
- insufficient comprehension of the lecture material on the studied section;
- ability to solve standard (typical) and situational tasks under the guidance of a teacher;
- insufficient independent work in practical classes;
- ability to draw conclusions without significant errors;
- insufficient knowledge of the tools of the discipline, the ability to use them in solving standard (typical) problems;
- ability to navigate the main theories, concepts and trends in the studied academic discipline;
- work under the guidance of the teacher in practical classes, the acceptable level of culture of performance of tasks;
- low results of certification in practical classes.

3 (three) points are given to the student who demonstrated:

- incomplete knowledge within the educational standard of higher education;
- inability to clearly and competently present the material, the presence of errors in the use of terminology;
- ignorance of the norms of the most important indicators of homeostasis of the internal environment, blood, cardiovascular, respiratory and other systems of the body;
- knowledge of only a part of the basic literature recommended by the university curriculum in normal physiology;
- poor mastery of practical skills within the academic discipline (fundamental errors in their demonstration);
- incompetence in solving standard (typical) and (or) situational tasks;
- inability to navigate the basic theories, concepts and trends of the study discipline;
- passiveness in practical classes, low level of culture of performing tasks;
- low results of certification in practical classes;
- presentation of the answer to the questions with significant, logical errors.

Two (2) points are given to the student who demonstrated:

- fragmentary knowledge within the educational standard of higher education;
- knowledge of selected literary sources recommended by the university curriculum for the academic discipline;
- inability to use the scientific terminology of the academic discipline,
- the presence of gross, logical errors in the answer;
- inability to solve standard (typical) and (or) situational tasks;
- passiveness in practical classes;
- low level of performance culture.

One (1) point is given to the student:

- in the absence of knowledge (and competencies) within the educational standard of higher education;
- in the case of a refusal to answer;
- failure to show up for an evaluation without a good reason;
- in the case of a breach of discipline during the examination.

Marks of 9 or 10, as well as 3, 2, and 1 points are given based on a joint decision of the examiners and the head of the department.

Head of the Department
Of Normal Physiology



V.A.Pereverzev