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### Syllabus

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## Work study program of the discipline "Respiratory system in normal" Name and code of the educational program: 6R10115 | 118 7 11 118 7 11

| 0.   | Work study program of the discipline "Respiratory system in normal" Page 1 of 42   |
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| St   | Work study program of the discipline "Respiratory system in normal"  |
| 1  | Name and code of the educational program: 6B10115 "Medicine"   |
| 1. 1   | General information about the discipline   |
| 1.1  | Код дисциплины:RSN 2301 1.6 Academic year: 2025-2026   |
| 21.2   | The name of the discipline: Respiratory system in 1.7 Course:2   |
| 6  | normal   |
| P2   | Prerequisites: Introduction to the profession, 1.8 Term:3  |
| N4.3   | Structural organization of human physiological   |
| 11/1/10  | processes  |
| 1.4  | Postrequisites: general pathology, cardiorespiratory 1.9 Number of credits (ECTS): 4/120   |
| G.   | system in pathology  |
| 11   | Cycle: BD 1.10 Component: UC   |
| 2,1  | Description of the discipline  |
|  | ated discipline: building fundamental knowledge of the anatomical, physiological and histological features   |
|  | respiratory organs, applying this knowledge to biomedical and clinical sciences, providing patient-centered  |
|  | especting the principles of ethics and deontology for effective professional practice in health care.  |
| 3.   | Форма суммативной оценки   |
| 3.1  | • Testing 3.5 Course work  |
| 3.2  | Written 3.6 Essay  |
| 3.3  | Verbal 3.7 Project   |
| 3.4  |  |
| 5.4  |  |
| X  |  |
| 4.<br>To fo  | Objectives of the discipline  rm students' deep and comprehensive knowledge and understanding of the anatomy, histology, and ology of the respiratory system in a healthy body. This allows them to fully interact with patients in  |
| To for physic the further diagnostics.   | Objectives of the discipline  rm students' deep and comprehensive knowledge and understanding of the anatomy, histology, and plogy of the respiratory system in a healthy body. This allows them to fully interact with patients in uture, as well as successfully integrate the acquired knowledge into clinical practice and visual ostics.  |
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|  | ent of "Morphophysiology"<br>opographic anatomy and histolog | y" 42/11<br>52/11  | ILMO.      |
|  | liscipline "Respiratory system in                            | normal" Page 2 of 42<br>biomedical, clinical, epidemio   |            |
| LO 4 sciences aim  | ned at diagnosis, treatment                                  | and prevention of the most co  | mmon       |
| LO 5 diseases. LO4 - Comr  | municates effectively with                                   | patients, their families and heal  | th care    |
| providers in   | n an ethical, deontological                                  | and inclusive manner, resul  |            |
| 6. Detailed information about the  | ormation sharing and collab                                  | oration.   | Mg. Scr    |
| The venue of the Department of   | of Morphophysiology (Ana                                     |  | 4/1        |
| address:www.ukma.kz. (Physiolo   | ogy) – Al-Farabi Square, acade                               | ail <u>anatomia.2012@mail.ru</u> .<br>mic building No. 2, 4th-5th floor  | Email      |
| Location of the Department of Sacademic building 1B, ground floor  |  | stology: Shymkent, Al-Farabi Sc  | uare P,    |
| 6.2 Number of hours Lectures   | Practical less   | 0-111-1-1-1  | SIW 1      |
| 6.3 The plan of studying the discipline  | e (1) (32 st   | 0 20 12/12   | 56         |
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| Physiolog Lect 1   | 10 10 5  | 1,0 2  | egn,"      |
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| Histology Lect 1 Pract 2   | 1 0 0  | 1,0 2  | SK.        |
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| 7. Information about teachers  | 120. 97. T 34.   | in so with series.   | egn        |
| 1. Танабаев Баймахан Дильбарханович  | Degrees and positi   | oфессора b.tanabayev@mail.ru   |            |
| Сисабеков Касымхан Ермекбаевич     Жумащев Сейдалы Нурахович   | Профессор, д.м.<br>И.о профессора, д                         | .м.н sult_med@mail.ru  | 5          |
| Жакипбекова Галия Сапаровна     Тоймбетова Карлыгаш Абибуллаевна   | к.б.н., и.о. професс   |  | ru Sk      |
| 6. Едіге Айдана Жандосқызы 7. Сартаева Улжалгас Спандияровна   | магистр, ст преподаг<br>магистр, ст преподаг                 | затель a.edige93@mail.ru   |            |
| 8. Турекулова Акжаркын Кенесовна   | магистр, ст преподаг   | ватель jarkin-74@mail.ru   | 90, 1      |
| 9. Джубанишбаева Гаухар Ниязкуловна<br>10. Сатыбалдиева Назгул Муталхановна  | магистр, ст препода  | ватель n_a_z_i_92@mail.ru  | 00         |
| Джубанишбаева Гаухар Ниязкуловна     10. Сатыбалдиева Назгул Мугалхановна     11. Избасарова Мадина Сейсеналивна     12. Сабит Акайлым Ерлановна   | магистр, ст преподаг<br>магистр, ст преподаг                 |  |            |
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| 8. Thematic plants of the skind | Jedu. K. skur ekugedik                                       | J. R. Skura edu K. J. Skura ed | Y. CL      |
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### ONTÚSTIK-OAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ ONTÚSTIK-OAZÁOSTAN



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| KWg.     | 60        | Departme   | Department of "Morphophysiology"<br>ant of "Topographic anatomy and his<br>of the discipline "Respiratory sys | istology"                | chu.      | 42/11<br>52/11<br>Page 3 of                  | 42 Assessment                          |
| c V      | Veek      | Topic name   | Summary   | The                      | Nu        | - cacining                                   | TIBBEBBIIICIT                          |
|          | lay       | Mar egn, Kr ethi   | Tug egniki skrugi   | LO of discip             | mb<br>er  | methods/<br>technologies                     | forms/<br>methods                      |
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| o. 1     | 401       | Anatomy. Lecture 1   | The structure of the external   | LOI                      | rs        | Introductory                                 | Feedback                               |
|          |           | Morphofunctional anatomy of the nasal cavity and paranasal   | nose, nasal septum, nasal passages and paranasal  | (1 8)                    | SKINS     | introductory 5                               | (security questions)                   |
| 34,      | 00.       | sinuses.   | passages and paranasal<br>sinuses. The nasal cavity and its<br>walls.   | 40.Kr                    | (5)       | Fills Sight Miky                             | Test Mino.                             |
| 1. 64.   | 12        | Anatomy. Practical lesson 1.   | Anatomical structure of the   | LO1,                     | 31        | work in small                                | oral survey,                           |
|          | 9,        | External nose. The nasal cavity and its walls. Paranasal sinuses   | external nose, nasal septum, nasal passages and paranasal   | LO2,<br>LO3              | 7., K     | groups with anatomical                       | assessment sheet for solving           |
| 97       | 1         | 3km 28.80 40.16  | sinuses. The nasal cavity and its   | Skug.                    | egn.      | preparations, torso, dummies, posters,       | situational tasks,<br>assessment sheet |
| 911      |           | Ky skugieg egniky s  | walts. Sking edu. Na edu. Kl  | Sickly                   | S. S.     | on the interactive panel "Pirogov"           | for completing                         |
| 10.      | egn       | M.K. 3Kr. Rus, 69n.  | niky 1 skugie egniky  | A è                      | KULO      | and/or solving test<br>and situational tasks | test tasks                             |
| SKING    | 20.       | Physiology of SIWT/SIW 1   | Breathing during muscular   | LO4                      | 1/7       | Preparation and                              | A checklist for                        |
| SK       | 70,       | Features of breathing in different conditions.   | work. Breathing at low and high atmospheric pressure. Artificial  | FO2                      |           | protection of presentations.                 | evaluating SIW.                        |
| P        | SX        | The task of the SIW is to study changes in the   | respiration.  | so gallit                | 17.Kr     | 1 Stands. Segl                               | Miks of Mis                            |
| 11/67    | ,         | functions of the respiratory<br>system in various physiological  | Physiology of the recoiratory   | SKUGE                    | 9.697     | gniky skulg                                  | Wasaniky sy                            |
| 2011.10  | 7.4       | and pathological conditions, as  | SK, Klug. egn. 157  | SKI,                     | 9.        | Sn'ky skus                                   | Ma's grift of strikt                   |
| ~O.      | -97       | well as in environmental conditions.   | the straight segmith  | SK                       | ( )       | egn. It ex                                   | Mai gari                               |
| 2        | .0        | Physiology. Lecture 1 Physiology of the respiratory  | rhysiology of the respiratory   | DO1                      | 91<br>91  | overview                                     | Feedback                               |
| /        | KUS       | system.  | breathing. Transportation of  | .edu.;\/                 | 1         | overview A                                   | Feedback<br>(security<br>questions)    |
| 9        | 7         | Wa. Egg. 14 34   | respiratory research.   | , ~O,~                   | 1         | SKILL SIED Y                                 | 2 1 1                                  |
| Y. K     | V 9       | <b>Physiology.</b> Practical lesson 1<br>Physiology of the respiratory   | External breathing. Elastic properties of the lungs. The  | LO1,                     | 2         | issues of the topic                          | Oral interview, assessment of the      |
| 7/2      | 1         | 120  | minute volume of breathing  | LO3                      | egn       | completing test<br>tasks, solving            | performance of test tasks,             |
|          | 77.       | system, External breatning.  | minute volume of breathing.   | r s. sky                 | 10.       | situational                                  | assessment of the                      |
| TUO.     | eg.       | " It sky " " " " " " " " " " " " " " " " " " "   |   | 1                        | Skille    | problems.                                    | solution of situational tasks          |
| AU       | 0         | <b>Histology.</b> Practical lesson 1 Topic; Nasal cavity,  | Shells of the wall of the airways. Extrapulmonary airways. The structure of the                               | LO1,<br>LO2,             | 1 54      | Small group work, checklist of               | Practical lesson evaluation            |
| , ,      |           | nasopharynx, Iarynx  | airways. The structure of the walls of the airways: nasal   | LO3                      | KL        | histoproparations                            | evaluation<br>checklist.               |
| 1        | 9         | nasopharynx, iarynx  |   | Arus egn                 | 17.KZ     | micrographs                                  | D. It sky                              |
| 7.7.     | 1         |  | cavity, nasopharynx, larynx. Histofunctional features of the mucous membrane.                                 | o' ~'O                   |           | 1. 1. 4                                      | egnikr si eku                          |
|          |           | Anatomy. SIWT/SIW 1 Anatomical and topographic   | Anatomical and topographic features of the  | LO4<br>LO5               | 1/6       | - Preparation and protection of the          | Oral interview. Assessment             |
| ).<br>() | , · · · · | features of the nasal cavity and paranasal sinuses. Their  | nasal cavity and naranasal  | A 51                     |           | presentation                                 | sheets for all forms of                |
| KUI      | (Q.       | importance in clinical practice.   | sinuses. Their importance   | W.KI                     | SK.       |  | completed                              |
| SKI,     | SKIN      | SIW Assignments:   | in clinical practice.   | n. 471                   | 1 S       | Skug skug squ                                | assignments.                           |
| V        | SK        | String edukly string st | ar chinds practice.   | rkugiegi                 | ).K. 1    | Kr skusieges                                 | gnith is skulg.                        |
| 1).Kr    | 9<br>N    | o. Thus son mits of  | Kus squilks sk  | Ma.                      | egn.,     | Kr 3kg, 496                                  | gnikr s. skuis                         |

### skng.eni. skus eluks ONTÚSTIK-OAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ ONTÚSTIK-OAZÁOSTAN MEDISINA AKADEMIASY ИНА АКАДЕМИЯСЬЫ» AK



| SKI  | Tuging egniky skug  | 3 - 411. 17 EXLL 3.80  | 11. 1. S.  | skula ug edu du k                      | Kr skus. seg  |
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| 1.6  | Ekus egn. Kr. Ekus  | na edu. Ku skua eu   | egniky s   | Skulging egnik                         | MIN SKUB'S SKUB'S   |
| 7.4.   | Stug Genny  |  | - 3. M.  | 1                                      | Egot AT Skill   |
| eduit  | «Оңтүстік Қазақстан медици  | MEDISINA SKMA MEDIC<br>AKADEMIASY ACADI  | EMY<br>Dwwo-Kasaxorauc   | кая медицинская акадо<br>42/11         | A. Solin  |
| ). OS  | N   | epartment of "Morphophysiology"  | SKINO NASANOTANO   | 42/11                                  | Kug. Signiff  |
| KINO   | Departme  | nt of "Topographic anatomy and hist<br>of the discipline "Respiratory syste  | lology   | Page 4 of                              | 425Ki a. du.  |
| SK.  |   | So The So  | AI III IIGIIIAI  | Skulo ug egg du k                      | X sking.  |
| l è  | structures forming the walls of<br>the nasal cavity and paranasal   | ing sqn ky skug so   | eor With   | Skug edg. Mg elli.                     | 201.KJ SKU 9'S  |
| N.K  | sinuses.1 2. Explain how the anatomical   |  | kugʻegy;   | TKY SKUS'EGY EHTY                      | o'squ'fy skur   |
| 877.4  | and topographic features of the nasal cavity and paranasal  | ex xus. eqn. 141   | kr. skus seg   |  | 5.00 Mil. 1   |
| (O. )  | sinuses affect the amount of the  |  |  |  | -0. % N   |
| 100.0  | a silicisitation  | , T ex   | Kr skue  | , sept. 11. 1.                         | ex rus. egn.  |
| St. Kill   | 3. Analyze the clinical situation with purulent sinusitis   | i.kl. skrivasedu.kl.   | 77. KJ 8 8 6 7 8 8 6 7 8 8 6 7 8 8 6 8 6 8 8 6 8 8 6 8 8 6 8 8 8 8 | KUL VS SO YNIKY                        |   |
| 1 5  | and determine which anatomical structures may be  | edniky skureen   | segniky e  | kug'eqn'yeqn'y                         | KY Skuig Bo   |
| 1  | involved in the pathological process.   | King Segraniky Sk Au   | is so with   | SK Ma.                                 | 901. Kr 348.  |
| 3  | Histology. Lecture No. 1  | Morphofunctional   | LOI 1  | overview skind                         | Feedback<br>(security   |
| 0.000  | Kr. 2, 00   | characteristics of the respiratory system  | skus. skus. sk   | 90. 11 ex                              | questions)  |
| , O.   | ya squiky skusis squis  | respiratory system. Classification, sources, and course of   | 1 Skill  |  | sking edu. K  |
| Sku  | 3 3 1 3 3.  | and course of  | 901KT EKU  | Killy Egn. KT                          | SKII Maio du  |
| SK, SK   | 3. % T &  | Extrapulmonary airways.  | or William   | skug egniky                            | Ky skulg ug   |
|  | Anatomy Practical Jesson 2  | and course of development. Extrapulmonary airways. The structure of the walls of the airways: nasal                | igiogni y  | V at a                                 | SOUTH SKILL   |
| 2011,12  | 1 Fill 60 1/4   | cavity, larynx, trachea and  | skug's grug's  | Segniky skug.                          | oral survey,<br>assessment sheet<br>for solving                           |
| 30, 91   | The skilling of sor Mike  | main bronchi. Histofunctional features of  | ex, Mar 6  | en. Kr exu                             | Mar. Edul. KI   |
| EUG. EUG.  | Anatomy. Practical lesson 2. The pharynx and its involvement in breathing.  | the mucous membrane.   |  | Segniky skur                           | " Mo. edu. K  |
| 100  | Attatomy. 1 ractical resson 2.  | The structure of the pharynx and larynx as an airway, the features   | PARI I 7 A   | work in small groups with              | oral survey,  |
| 84.  | The pharynx and its involvement in breathing.   | of their walls. Ligaments and  | LO3  | anatomical preparations, torso,        | for solving situational tasks,  |
| ,.Kl 1   | Larynx: topography, ligaments and muscles, functions.   | muscles of the farynx.   | edu. Kr  | dummies, posters,                      | assessment sheet  |
| VLV  | and muscles, functions.   | muscles of the larynx.   | Wa. Segn.  | on the interactive panel "Pirogov"     | assessment sheet<br>for completing<br>test tasks                          |
| egn  | Anatomy SIWT/SIW.2  | 3411, 19.60, 9714, 17 3  | Skillio Segl   | and/or solving test<br>and situational | test tasks  |
| 60   | Anotomy CIWF/CIW2   | larynx as an airway, the features of their walls. Ligaments and muscles of the larynx.  Segmental structure of the | 104  | tasks Propagation and                  | Oral informion  |
| The state  | Anatomy. SIWT/SIW 2. Segmental structure of the lungs. Principles of bronchopulmonary surgery. SIW Assignments:   | Segmental structure of the lungs. Principles of bronchopulmonary surgery.  | LO5  | protection of the                      | Oral interview. Assessment sheets for all forms of completed assignments. |
| 10,  | lungs. Principles of bronchopulmonary surgery.  | bronchopulmonary surgery.  | W.F. St  | presentation                           | sheets for all<br>forms of  |
| 9  | bronchopulmonary surgery. SIW Assignments: 1. Name the anatomical segments of the right and left lungs according to their lobes. 2. Explain the importance of | use ship is sking s  | 60. M.Kr   | et Aug. Segn.                          | completed assignments.  |
| J.K.   | segments of the right and left  | Mai offit Ky skin  | 20. 80 Allike  | I SKINO DE                             | With 1 St 100   |
| 1  | 2. Explain the importance of  | St. Killy. Egn. 185 &  | The odl  | M. KI SKING                            | 8. 811. 1 9°  |
| 7. 60 S. | the segmental structure of the lungs for performing organ-  | 1 string gedu WK   | SK, Mg.  | egn. 155 exc                           | Mar advir 1   |
| TO.  | preserving operations in thoracic surgery.  | 1. Y 2 Skur 360, 47.   | 1 5 KM2  | 690 771.KJ (                           | of Music Egy. 14  |
| A. T.  | lungs for performing organ-<br>preserving operations in<br>thoracic surgery.  3. Analyze a clinical case with   | lungs. Principles of bronchopulmonary surgery.   | 7. T. 8.   | W. 50, 10 Kr                           | 1 St. Wa. Sepp.   |
| 5 S  | 3. Analyze a clinical case with   | edu 1. 12 ski ma e   | edu. Kr  | 3×11, 29:67 911,                       | To skylo sig  |
| 1  | Skin 8.60 11.14 Sk  | Wo. Segn "I'Ks ex," Wo   | S. egn. K  | Ski Wa's                               | gnit Kr skur  |
| J. 17. V   | 1 3km 25.60 901.11 12 8   | Sking Sear Miks Sk   | Klug. Segm.  | its ex was                             | egn. Kt ekn   |

# ONTÚSTIK-OAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



| SKI      | kugi ednik ky ekug  | ing equipality skills ex   | 3. edu. K. S.               | skulginginging  | 1 st. was  |
|----------|---|--|-----------------------------|---|--|
| XV S     |   |  | 0. 17.                      | Sking edi enik  | Mikr Skuich  |
| S. GIJ.K | ex ma. eqn. Kr  |  | HKAZAKHSTAN<br>ICAL<br>DEMY | it s skulo  | 18. GO 977. 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2  |
| y. 85    | «Оңтүстік Қазақстан медици<br>Г   |  |                             | жаў медицинская акад<br>42/11                           | WANTE OF THE STATE |
| Killio   | Work study program  | ent of "Topographic anatomy and hi<br>of the discipline "Respiratory sys   |                             | 52/11<br>Page 5 of                                      | 42 sking edu.  |
| l d      | a localized lung abscess and<br>determine which segment<br>should be removed during | ugegniky ky skuraie  | segniti s                   | skulo vasemi  | I'M SKUS.  |
| J. 4     | segmentectomy.  | Pharynx, larynx: topography,   | CO. SO. THE                 |   | Feedback   |
| S. GUY   | Lecture 2 Morphofunctional characteristics of the pharynx and larynx.               | structure, functions.  | ski skuo soo                | Overview King   | (security questions)   |
| , S.     | Physiology. Practical lesson 2 Gas exchange in lungs and                            | Gas exchange in lungs and tissues. Vital capacity of the   | LO1, 2<br>LO2,              | discussing the main issues of the topic,                | Oral interview, assessment of the  |
| Sky.     | tissues. Total lung capacity.   | lungs. Spirometry.   | LO2,<br>LO3                 | completing test<br>tasks, solving                       | performance of test tasks,   |
| 1        | skugien egniki si eku   | "Wa's gr, Ky skua.   | (3.edu. 1.K)                | situational<br>problems.                                | assessment of the solution of situational tasks  |
| 801      | Histology. Practical lesson 2 Theme: Trachea and main bronchi.                      | Extrapulmonary airways. The structure of the wall of the airways: trachea and main   | LO1, 2<br>LO2,<br>LO3       | Small group work,<br>checklist of<br>histopreparations, | Practical lesson<br>evaluation<br>checklist.   |
| 19.00    | di Arachea and many oronents  | bronchi. Histofunctional features of the mucous  | TO SKILLS'S                 | micrographs   | CHICKING CHILLY  |
| Skil. 12 | Histology.<br>SIWT 1.   | membrane.  Lungs:Intrapulmonary airways: bronchi and bronchioles.The   | LO4 15<br>LO5               | Working in small groups, defending a                    | Checklist for<br>SIW assessment  |
| K1 84    | Bronchi and bronchioles.  2. Surfactant-alveolar complex. Task SIW 1.               | dependence of the structure of<br>the bronchial wall and<br>bronchioles on their   | ec equit.                   | presentation,<br>compiling a<br>glossary.               | the stage  |
| 2011.1   | Explain how the transition  | bronchioles on their<br>caliber.Structural and chemical<br>organization and function of the  | Lis agedit                  | BU.KI SKING   | 5gn, 15 3g   |
| 9/       | alveolar region occurs.   | structure of the interalveolar   |                             | 8971-KY 8444  | Margarith St.  |
| 5        | Physiology. Lecture 2 Regulation of breathing                                       | partitions The respiratory center. Humoral   | LO1 1                       | overview  | Feedback   |
| 50       | us segminy s a sample   | effects on the respiratory center.<br>Reflex actions on the respiratory<br>center.   | Sq11.K1 2 SK                | SKUS. SEGN. MIK   | Feedback<br>(security<br>questions)  |
| 4        | Trachea and bronchial tree:   | The structure of the trachea, primary, secondary and tertiary bronchi  | LO1, 3<br>LO2,<br>LO3       | groups with   | oral survey, assessment sheet for solving  |
| 6911.47  | features.   | bronchi.   | e Hus. Sign                 | preparations, torso, dummies, posters,                  | situational tasks,<br>assessment sheet   |
| 00       | Histology.  | bronchi. de skinde du kl. kl. skinde du kl. sk | 7.K. Skulg.                 | panel "Pirogov"<br>and/or solving test                  | for completing<br>test tasks   |
| J. Color | eo litre si Mo  | Consolidation of the completed   |                             | and situational tasks  Written response to              | MV agggggmant  |
| / 6      | Histology. SIWT/SIW 2. Border control 1:  | material on the topics of lectures, practical exercises,   |                             | tickets (situational tasks)                             | Checklist  |
| 6        | The so the s  | exercises and deadlines.  Morphofunctional   | EO1 1                       | overview  | Feedback   |
| 3. 69 S. | ATT YEAR TITLE (1   | .1   | £01 1 1 11                  | overview sking  |  |
| KIND. C. | Jegn. 111 Sky My 69   | Pneumocysts, surfactant. Respiratory department of the lung. The air-blood barrier.  | T SKUS                      | discussing the main                                     | Oral interview,  |
|          | Physiology. Practical lesson 3  | Transportation of gases by   | E01, 1 2                    | discussing the main                                     | Orai linerview,  |
| V 6      | Physiology: Practical lesson 3  | Transportation of gases by   | Seol, A 2 S                 | discussing the main                                     | Oral interview,  |
| NY Y     | 7 3km, 5 5 6 97 1 3   | Kug'eg sqn'y 3 skug  | 'ya'eg eqn'ya               | IKT SKU, Was  | gniky s skulg  |

### ONTÚSTIK-OAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ ONTÚSTIK-OAZÁOSTAN



| SKI        | kugi edniky skugi   | ing equity of sking  | Co. Squitt                          | the skulp square driver                          | 1 st. was as                                     |
|------------|---|--|-------------------------------------|--|--|
| KI G       |   |  | 2, 20                               | ky skuosegnik                                    | JUKY SKULYSE                                     |
| 3.         | er War Son Ky   | ONTUSTIK-OAZAOSTAN MEDISINA ARADEMIASY  ARADEMIASY   | OUTH KAZAKHSTAN<br>EDICAL<br>CADEMY | Fr 2, %  | ado il ak  |
| ). S       | «Онтүстік Қазақстан медици<br>Г   | на академиясы» АК Alpha Alpha akaдемиясы» АК Department of "Morphophysiolog  | У «Южно-Казахот                     | анская медицинская акад                          | емия»  |
| KUO.       | Departme  | nt of "Topographic anatomy and of the discipline "Respiratory s  | histology"                          | 52/11<br>Page,6 of                               | 42 assessment of the                             |
| SKY.       | Transportation of gases by  | blood. Oxygen transport.   | e LO2,                              |  |  |
|            | Ky ploods Chity Ky Skuig  | Dissociation of oxyhemoglobin Transport of carbon dioxide.   | LO3                                 | completing test tasks, solving                   | performance of test tasks,                       |
| .U.X       | 2/ 40. 90 17 3  | Ma. edu. Kr e  | Kill Waise Spi                      | situational problems                             | assessment of the solution of                    |
| 977.       | The physiology of SIWT/SIW  | The influence of the   | LO4 1/7                             | Preparation and                                  | situational tasks A checklist for                |
| O.         | 2<br>Influence on the respiratory   | hypothalamus on the activity of the respiratory center.  |                                     | protection of presentations.                     | evaluating SIW                                   |
| 100.       | center of various departments   | Regulation of respiration by the   | 2) Kr 8                             |  | sk rus. egn.                                     |
| St. M.     | of the central nervous system. SIW tasks:   | cerebral hemispheres.  | 90. 1                               | JE 30 11/1                                       | 1 Strio 2001                                     |
| 1          | Describe the effect of the central nervous system   | rus egn. Kr eku  | 3.0° 697.1.1.1.1                    | The sking equity                                 | MIN 3 SKULL                                      |
| 1          | departments on the respiratory  | the sept mit sk.   | 1210. 69p.                          | ik ski wo.                                       | gn. Kr skr.                                      |
| 7          | Anatomy.  | The structure, topography, and   | LO1 4                               | ( Werview  | Feedback   |
| 6917       | Lecture 3 Morphofunctional characteristics of the lungs   | functions of the lungs. The structure of the broncho-  | 1 SKIN 2                            | SOLVELLEN SKI                                    | (security<br>questions)                          |
| 10.        | Anatomy, Practical lesson 4.  | alveolar tree.  The external and internal  | 101 90                              | work in small                                    | oral survey,                                     |
| Skille     | Lungs. The structure, lobes,  | structure of the lungs, segmenta<br>structure. Topography of the   | 1 LO2,                              | groups with anatomical                           | assessment sheet                                 |
| 34         | segments, and gates of the lung.  | lung gatas   | F03                                 | preparations, torso,                             | for solving situational tasks,                   |
| F          | ex, was egn; Ky ex  | and gales.   | io se egnit                         | dummies, posters, on the interactive             | assessment sheet for completing                  |
| 2011.1     | it skua's squitt  | 17.  | Skusies sie                         | panel "Pirogov"<br>and/or solving test           | test tasks                                       |
| 30,        | Anatomy, SIWT/SIW 3.  | Clinical anatomical guidelines   | SKII 0.                             | Pand situational tasks                           | V. 7/7, 1  |
| 30.81      | Clinical anatomical guidelines  | for puncture of the pleural  | LO4 1/6<br>LO5                      | - Preparation and protection of the              | Oral interview. Assessment sheets for all        |
| No         | for puncture of the pleural cavity.   | cavity. Strange edit   | WIKL SI                             | presentation                                     | sheets for all<br>forms of                       |
| 94         | SIW Assignments:  1. List the anatomical landmarks of the chest used for  | egnit KT extension   | 30 301.41                           | s. Exura sign mix                                | sheets for all forms of completed assignments.   |
| 5          | landmarks of the chest used for   | is egn. Hr exp.  | (3.6. 8/1)                          | 1 34111 20.00 8                                  | J. J. Skills                                     |
| X. X.      | for puncture of the pleural cavity.  SIW Assignments:  1. List the anatomical landmarks of the chest used for puncture of the pleural cavity.  2. Based on the clinical situation, determine the optimal location for | Clinical anatomical guidelines for puncture of the pleural cavity.   | Killy. Off.                         | - Preparation and protection of the presentation | Euge Garini                                      |
|            | situation, determine the optimal location for   | 2 2410, 29:60, 171-Kr  | er Kug.                             | an into ak, in                                   | edu. 141 3                                       |
| 69         | performing a pleural puncture and justify your choice based   | cavity.  Strike skind edu. kl. skind edu. skind e | A SKALO                             | protection of the presentation                   | Edity Sedity                                     |
|            | on the anatomy.   | 1 8K1 8.8 811  | 101                                 | 10 CO 21/4 C                                     | Fandback   |
| Kui        | Lecture 4. Morphofunctional   | Topography of the pleura and   | COLUMN I                            | Överview   | (security questions)                             |
| è          | Anatomy. Practical lesson 5.  | The pleura Sinuses of the  | . 90. 1                             | 9, 1 : 0   | oral curvoy                                      |
| 3.4        | Dlaura plaural cinucae  | player The boundaries of the   | LO2,<br>LO3                         | groups with anatomical                           | assessment sheet<br>for solving                  |
| 1          | lungs   | Sk ma blanca prop.   |                                     | T T  | situational tasks,                               |
| s. 69.2.   | Mit 2 st Mus. Segn. 11/2  | sk, Mg. egn. K   | Skill of Skills                     | dummies, posters, on the interactive             | assessment sheet for completing                  |
| Y. S.      | a. edn. ky skug. edn. ky  | and pieurai sacs.  | 7. 1 SKILL                          | Pirogov panel and/or solving test                | test tasks                                       |
| the s      | 8. 971. Y 3 341, 860  | -971/4 2 Skuly 589   | 7. 17. KT 3. 8. KR                  | and situational                                  | ek, Wai en,                                      |
| SKI        | Topography of the pleura and lungs  | lungs and pleural sacs.  | klug'sqn'ky                         | and situational tasks                            | assessment sheet<br>for completing<br>test tasks |
| <i>V</i> ( | sk kug. egn. 1kg eku  | Was egn; Ky exy  | klug'sqn'y                          | KI Sking a sale                                  | MIK, I SE KUG.                                   |
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### ONTÚSTIK-OAZÁOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ ONTUSTIK-OAZAOSTAN MEDISINA



| Departi                               | nent of "Mor | phophysi | ology"    | 5      |
|---------------------------------------|--------------|----------|-----------|--------|
| Department of                         | Topographic  | anatomy  | and histo | ology" |
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|  | skus, egn. Ky skus  | ing squiry skings   | 6 8 901.K1 2   | skus usiedlik   | 1 St Skug. 2.80  |
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| KL S   |   |   | 0. 111.  | skula sul sell sellik   | JU.K. SKING  |
| edu.K  | «Оңтүстік Қазақстан медінін   |   | TH KAZAKHSTAN DICAL DEMY   | ская медицинская акаде  | 3. edu. 1 51   |
| y. 05  | The skills of I   | - F   |  | ская медицинская акаде<br>42/11   | EMNAN .  |
| KING   |   | ent of "Topographic anatomy and hoof the discipline "Respiratory sys  |  | 52/11<br>Page 7 of  | 42 Practical lesson  |
| gh   | Histology. Practical lesson #3 Theme:   | Acinus as a morphofunctional unit of the lung. Structural   | LO1, 2<br>LO2, 1   | Small group work, checklist of  | evaluation   |
|  | Respiratory department. Acinus of the lung.   | components of the acinus. The structure of the alveolar   | TO3  | histopreparations,<br>micrographs   | checklist.   |
| 10.1   | K Skill Waso Squik K  | wall. Types of pneumocytes, their histofunctional   | skus. Segn   | 1.KT 3KW 3.6  | Signiffy Str   |
| 8.00   | Physiology of SIWT/SIW 3  | characteristics. The role of respiratory  | LO4 1/7  | Preparation and   | A checklist for  |
|  | The role of chemoreceptors and mechanoreceptors of  | regulation mechanoreceptors. The reflexes of Goering and  | TO2 SAL  | protection of   | evaluating SIW.  |
| 3/11   | respiratory regulation. SIW Assignments:  | Breuer. The role of chemoreceptors in respiratory   | 80.  | rug, gegn nix   | 1. Sking. Sell.  |
| 1  | Schematically depict the regulation of respiration with   | regulation. Arterial and central chemoreceptors.  | ednik ik   | presentations.  | the skylo si   |
| 1  | the participation of chemo- and mechanoreceptors (arrow   | Kuyo os og 471.Kr 3kg   | 18. 5697. AT.  | 1 sking.  | gniky skujas   |
| 917.   | diagram).   | The mediastinum Classification  | EO1, 2 2   | work in small   | oral survey,   |
| 10.00  | Mediastinum: classification. Respiratory muscles: anatomy   | of the mediastinum. Topography of mediastinal   |  | groups with anatomical  | assessment sheet<br>for solving  |
| 100.   | of the diaphragm and auxiliary  | organs. Anatomical structure of the diaphragm, external and   | Kr 3c x  | preparations, torso,<br>dummies, posters,   | situational tasks,<br>assessment sheet   |
| St.  |   | internal intercostal muscles,<br>auxiliary respiratory muscles  | 90.  | on the interactive panel "Pirogov"  | for completing test tasks  |
| S.   | The skug og sprikt skug.  | (sternocleidomastoid, stair, abdominal muscles, etc.)   | 20.6911.K1   | and/or solving test   | Lest tisks   |
| •  |   |   |  | and cituational   | 14   |
| 1/2  |   | 7/1. 0 60 M/h 1 3   |  | and situational tasks   | Oral interview   |
| 3011/27  | Physiology. Practical lesson 4  | Regulation of breathing. The respiratory center. The role of  | LO1, 2<br>LO2,   | tasks discussing the main issues of the topic,  | Oral interview, assessment of the  |
| 91   | Physiology. Practical lesson 4  | Regulation of breathing. The respiratory center. The role of chemo and mechanoreceptors in  | LO1, 2<br>LO2,   | tasks discussing the main issues of the topic, completing test tasks, solving   | assessment of the performance of test tasks,   |
| Mg. di   | Physiology. Practical lesson 4 Regulation of breathing.   | Regulation of breathing. The respiratory center. The role of chemo and mechanoreceptors in  | LO1, 2<br>LO2,   | tasks discussing the main issues of the topic, completing test  | assessment of the performance of test tasks, assessment of the solution of   |
| Wa Sa  | Physiology. Practical lesson 4 Regulation of breathing.  Anatomy. SIWT/SIW 4.   | Regulation of breathing. The respiratory center. The role of chemo and mechanoreceptors in respiratory regulation.  | LO1, 2<br>LO2,<br>LO3  | tasks discussing the main issues of the topic, completing test tasks, solving situational problems.   | assessment of the performance of test tasks, assessment of the solution of situational tasks  Oral interview.  |
| 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8  | Physiology. Practical lesson 4 Regulation of breathing.  Anatomy. SIWT/SIW 4. Topography of the trachea and bronchi: clinical significance in   | Regulation of breathing. The respiratory center. The role of chemo and mechanoreceptors in respiratory regulation.  Tracheal and bronchial topography: clinical significance in aspiration and bronchoscopy.  | LO1, 2<br>LO2,<br>LO3<br>LO4<br>LO5                                    | tasks discussing the main issues of the topic, completing test tasks, solving situational problems.  - Preparation and protection of the presentation   | assessment of the performance of test tasks, assessment of the solution of situational tasks  Oral interview.  Assessment sheets for all   |
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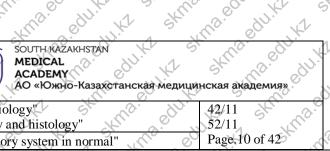
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| 6      | W. W.O        | 691        | state of the body.                      | 70. K 8k                   | Lyge Griff Ky              | 1 KING                   | er like e                              | Mio.       |
| Y.     | 10.2          | Asses      | sment methods and c                     |                            | The second                 | The state                | ed its                                 | Or Ma      |
| D- "   | 1             | 7.         | ·                                       | . 0,                       | 2 20                       | VLV G                    | 20.                                    | · /        |

### **Checklist for practical training**

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| 10.2 Asses      | ssment methods and criteria                        | The skill of the state of the s |
|-----------------|--|--|
| 2 sk 2          | 1. 9n. 1 sky sie                                   | Mile 1 3 thur so, Mile of the st   |
|                 | oractical training                                 | 30 "If S. "U.O GO, A. 24 "VO. "90, 1   |
| Oral response   |  | Egg. 15 24. 20. 10. 11 54. 20. 10. 11.   |
| Form of control | Evaluation   | Evaluation criteria  |
| Oral response   | Great  | The student did not make any mistakes during the answer, was guided by the   |
| D. 90.          | Corresponds to the estimates:                      | theories, concepts and directions of the discipline under study, gave them a   |
| J. 171.         | A (4,0; 95-100%);                                  | critical assessment, and also used the scientific achievements of other  |
| The sec         | A- (3,67; 90-94%)                                  | disciplines.   |
| D. 100          | A 34. 40. 97.                                      | The second secon |
| St. No.         | Well   | The student did not make any gross mistakes during the answer, but made  |
| 1 gKI           | Corresponds to the estimates:<br>B+ (3,33; 85-89%) | inaccuracies and unprincipled mistakes, corrected by himself, managed to systematize the program material with the help of a teacher.  |
| 1 VI            | B (3,0; 80-84%)                                    | systematize the program material with the help of a teacher.   |
| Kr S.           | B- (2,67; 75-79%)                                  | . 9/1. 1 3/4. 3. M. 1 Ky. 5'6 M.   |
| D. K.           | C+ (2,33; 70-74%)                                  | 8. M. V. Hun Sep. 117, 2. Mig. 60 17,  |
| 200. 12         | Satisfactory                                       | The student made fundamental mistakes during the answer, limited himself   |
| D. 771.F        | Corresponds to the estimates:                      | only to the educational literature indicated by the teacher, and had great   |
| , CO            | 5 5 5  | 2 10 5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5   |
| Mo. Spr.        | Kr 24. Wa. 2911. Kr                                | 5k, 3° 4n; 1 sky, 3°6, 11'4, 3° 17'4,  |
| St. 20.         | 27. 17 EH, S. 47.                                  | 1 the se 11/4 2 the so the se us.  |
| eki, we         | 10. 1 ALL CO                                       | 14, 2, 14,0 Eg. 15, 24, 30. 9n. 15 Ex.   |
| 1 Killo         | 80 1/4 8, Wo 89                                    | 1 1 3 20 10. TO 37, 50, 50, 11 11  |
| Kr 9            | (a) -9, 11 of a)                                   | 1. 1. 1. 1. S. 11. S. 14. S.   |

# ONTÚSTIK-OAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



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| ).   | ONTUSTIK-OAZAOSTAN SOUTH KAZAKHSTAN   | SK      |
|------|---|---------|
| 40.1 | MEDISINA (SKMA) MEDICAL ARADEMIASY (SKMA) ACADEMY   | 1 3     |
| ). S | «Оңтүстік Қазақстан медицина академиясы» АҚ О «Южно-Казахстанская медицинская академия»   | 1       |
| ₩.   | Department of "Morphophysiology" 42/11  | 911.10  |
| tu,  | Department of "Topographic anatomy and histology"  Work study program of the discipline "Respiratory system in normal"  Page 10 of 42 | , Sqn'i |
| SKE  | C (2,0; 65-69%) difficulty in systematizing the material.   | 13. 69  |
| V .  | C- (1,67; 60-64%)<br>D+ (1,33; 55-59%)  | Ma.     |
| XI   | D- (1,0; 50-54%)  | SK, W   |
| 77.  | Unsatisfactory The student made gross mistakes during the answer, did not study the main  | SK      |
| 917. | FX (0.5; 25-49%) literature on the topic of the lesson, and failed to use scientific terminology in                                   | A a     |
| Ø    | F (0; 0-24%) histology and physiology.  | · W     |

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|    | 7/). 1       | 1 (0,0-2470)   | mstology ?            | ind physiology.               | 10 60 KI                       | 20. 9                        | ì  |
|----|--------------|--|-----------------------|-------------------------------|--------------------------------|------------------------------|----|
|    |              | r evaluating work in small group   |                       | S T SK                        | skug, mg.edu.                  | 1 24 2                       | -  |
|    |              | riteria for the description of anat                                      | tomical preparation   | ons                           | CK11 25. 11)                   | 1. XING                      |    |
| d  | ~ ~~         | the student  | 1 ext.                | 2. 11)· 1                     | THE SO                         | The S. W.                    | .0 |
| 1. | №            | Criteria for evaluating steps  | Great                 | Well                          | Udovl                          | Failure                      |    |
|    | steps        | Mik 1 Style 60   | 90-100                | 70-89                         | 50-69                          | 0-49                         | N. |
|    | steps SKIND. | Eur Kr Er Wg.  | He gave a clear       | I gave a fairly               | I partially                    | I couldn't                   |    |
|    | Str          | o. 90, 17 ex. 3  | and                   | complete                      | completed the                  | complete the                 |    |
| 4  | Kr Skil      | 20. M. 1. KU   | comprehensive answer. | answer, but I was confused in | task: I was<br>confused in the | task: I couldn't<br>name the | 1  |
| 5  | 1.           | sie squirity skus  | correctly named       | terminology; I                | answer, I did not              | anatomical                   |    |
| Þ  | W. Kr        | s.e. skrigedniky skrivas<br>skrigedniky skrivas<br>1 skrigedniky skrivas | the organs in         | made minor                    | provide the full               | structures                   | ν. |
| l  | 300 KJ       | SK. 20. 911. 17  | Latin and             | inaccuracies                  | names of                       | a strategieres               |    |
| >  | 917.         | 1 241 2. 2017  | a 1 ()                | Print S.                      | anatomical                     | th 2/20.                     |    |
|    | 2. 377.      | Skur skus so siegniky s  | Greek                 | SON KI                        | structures.                    | I SK                         | 5  |
| d  | We Co.       |  | Kr St                 | 0. 90. 1                      | ex, vi                         | 10.1                         |    |
|    | 1. Ma.       | The student recognizes the   | 18-20                 | 14-17,8                       | 10-13,8                        | 0-9,8                        |    |
|    | St. S.       | organ, gives its name in Latin,  | 40 j. K               | rille 60                      | Kr 2, Wo                       | ed Kr                        | Ċ  |
| l, | 111          | and, if necessary, in Greek.   | eo X                  | 21 12 0 V                     | 10 100                         | 0. 30.                       |    |
|    | 2. 5         | The student describes the  | 18-20                 | 14-17,8                       | 10-13,8                        | 0-9,8                        |    |
|    | Kr Sk        | holotopy of the organ using  | 20. 111.              | 1 xxn.                        | So 77/4 2                      | Killy 60                     | f  |
|    | 2            | professional terminology  The student describes the                      | 18-20                 | 14-17,8                       | 10-13,8                        | 0-9,8                        |    |
|    | 3. 7.        | skeletotopy of the organ using   | 10-200                | 14-1/,0                       | 10-13,0                        | 0-9,8                        | 3  |
|    | ec //        | professional terminology   | ex Vo.                | 90, 12 3                      | 9. 70.                         | a chair                      | 3  |
|    | 4 0          | The student describes the  | 18-20                 | 14-17,8                       | 10-13,8                        | 0-9.8                        |    |
|    | 20. 91       | organ's syntopy using  | 1. 4                  | 260,0                         | 10-13,8                        | St. St.                      | ?  |
| /. |              | professional terminology   | The S.                | Vo Bor KI                     | ex Wa.                         | 90 X 3K                      |    |
|    | 5.           | Describes the anatomical   | 18-20                 | 14-17,8                       | 10-13,8                        | 0-9,8                        |    |
|    | SINO         | structure of the organ.  | 911. 12               | CK1, 28. 11                   | J. T. KILL                     | 00 111/Kr                    |    |
| 1  | The maximu   | m score is 100.Total points  | Teacher's             | The second                    | 11/1 2,                        | 410 CO 14                    |    |
| *  |              | Ti score is roomstan bounts  | T cacher s            | 2, 1,0,0                      | 60x KJ 8                       | Mg. Spr.                     |    |
| 27 | Checklist fo | r evaluating work in small gro   | ours ed               | to 24 %                       | y. 9/1. 11                     | ch, 20. 40                   | >  |
| 9  | Checimist 10 | Great  |                       | nts, allocated to a           | small group, active            | ly participated in th        | e  |

| 2        | Checklist for | evaluating work in small groups      | of the second of the   |
|----------|---------------|--------------------------------------|--|
| y.<br>0, | 111/6         | Great                                | The students, allocated to a small group, actively participated in the   |
|          | Working in    | Corresponds to the estimates:        | fully correctly answered questions during the discussion.  |
|          | small         | A (4,0; 95-100%);                    | EXIL SI MILL SO WILL SO WILL SO  |
| 7        | groups        | A- (3,67; 90-94%)                    | a rue of the service of the service of   |
|          | KU. Die       | Well                                 | The students assigned to the subgroup actively participated in the di  |
| 1        | THU 6         | Corresponds to the estimates:        | problem by making mistakes that were corrected by the students of  |
| V        | St. Ma.       | B+ (3,33; 85-89%)                    | of the second of |
| V        | 1 54          | B (3,0; 80-84%)                      | Mile 1 stur of 11th S. This Egg 15 St  |
| 10.      | 12 aks        | B- (2,67; 75-79%)                    | 60 1/4 2 1/20 890 KJ 24 1/3. 391. 17 3   |
|          | Mile.         | C+(2,33;70-74%)                      | , 90 to 24 20. 90. 17 th, 25. 90. 17   |
| 6        | 20 Kr         | Satisfactory                         | The students assigned to the subgroup actively participated in the di  |
| 0        | 690 KT        | <b>Corresponds to the estimates:</b> | problem by making mistakes that were corrected by the students of  |
|          | D. 10.        | C (2,0; 65-69%)                      | discussion of the main issues of the topic, during the discussion they   |
| 1/2      | ·, v. 77)     | Kille So IK                          | 2, 40, 3p, 15 2x, 20, 3p, 15 3x, 30, 5   |
| 9        | THUS BOY      | The si was ago to                    | 84, 30, 97, 1 84, 3, Mr. 1 144, 36,  |
|          | er Va.        | 90 to 24 vo. 90.                     | 1 Skill 3. Mile 1 Kill 3. Miles St. Miles  |
| 1        | SK 20.        | Shiri I skir sie                     | 71/4 2 Miles 80 11/4 21 Miles 800 Ms 24 V  |
|          | 1 exercise    | Se Mit & Rule &                      | 1. 1. 2. 40. 89, 1 34, 20. 91, 1 34,   |
|          | F. 2.         | 70 70 11 84 -V.                      |  |

# ОЙТÚSTIK-OAZÁOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



SOUTH RAZAKHSTAN

MEDICAL

ACADEMY

AO «Южно-Казахстанская медицинская академия»

FKT SKUID

SKIND. BUIL

Department of "Morphophysiology" Department of "Topographic anatomy and histology" Page 11 of 42 42/11 52/11

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Work study program of the discipline "Respiratory system in normal" C- (1,67; 60-64%) the subgroup themselves

D+ (1,33; 55-59%) D- (1,0; 50-54%) Unsatisfactory FX (0.5; 25-49%)

F (0; 0-24%)

They could not find the correct answers to the main questions of the topic, did use scientific terminology when answering.

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| - CO 9-  | 2470)                              | in the same of the same  |
|--|------------------------------------|--|
| Solving situational                            | problems                           | waso sprike see thas a soft with the skinas a soft with  |
| Form 9   | Evaluation                         | Evaluation criteria  |
| of control                                     | A. 3. M. 1                         |  |
| Solving situational                            | Great                              | He actively participated in solving situational problems,  |
| problems                                       | Corresponds to the                 | showed original thinking, showed deep knowledge of the   |
| problems of all div                            | estimates:                         | material, and used scientific achievements of other  |
| S. Wo son                                      | A (4,0; 95-100%);                  | disciplines in the discussion.   |
| problems                                       | A- (3,67; 90-94%)                  | 911. V Hu. See 111/4 2 Plus 80. 1/4 2.   |
| Sqn'ky skug's skug's                           |                                    | He actively participated in the work, showed knowledge of  |
| 300 KI 5K                                      | Corresponds to the                 | the material, made unprincipled inaccuracies or errors   |
|  | estimates:                         | corrected by the student himself.  |
| 3. XV. 1.                                      | B+ (3,33; 85-89%)                  | 5. "40 EQ. 15 24 "40. "90, 15 34, "0° 80,  |
|  | B (3,0; 80-84%)                    | corrected by the student himself.  |
| , Wig Egg Kr                                   | B- (2,67; 75-79%)                  | 1 skug. gedniky skuge edniky skuge   |
| kus egn kg egn kg                              | C+ (2,33; 70-74%)                  | 1 skulgi equiki skulgi ekulgi equiki skulgi eluiki skulgi elui   |
| M.K. Skug'edn'ky<br>Skug'edn'ky<br>Skug'edn'ky | Satisfactory                       | When working in a group, he was passive, made  |
| K1 5K 20.                                      | Satisfactory Corresponds to the    | inaccuracies and fundamental mistakes, and had great   |
| M. I akir a                                    | estimates:                         | difficulty organizing the material.  |
| 117, 4 117,                                    | C (2,0, 03-07/0)                   | skind a chirth skind chirth skind chirth   |
| 60. 11/Fr 2.                                   | C- (1,67; 60-64%)                  | Vs. 90, T 37, Vs. 80, Vs. 15 57, Vs. 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,                                   |
| is ear Kr ex                                   | D+ (1,33; 55-59%)                  | skug, segn, Kr. sk. skug, segn, Kr. sk. ig, segn, is   |
| siege griffy sk                                | D- (1,0; 50-54%)                   | skug'eg egniky skug'egniky skug'egniky skug'egniky   |
|  | TI GO CO CO                        |  |
| CKILL S. S. YO'K                               | Unsatisfactory<br>FX (0.5; 25-49%) | He did not participate in the group's work, answering the  |
| Ky skug'squ'ky skug'squ'ky                     | F (0; 0-24%)                       | teacher's questions, made fundamental mistakes and inaccuracies, and did not use scientific terminology in his |
| ed,  | 1 (0,0-24/0)                       | answers.   |
| The st wa.                                     | 8gr KJ 8k, 20.                     | 1 20 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1   |
|  |                                    |  |

Criteria for assessing practical skills acquisition

Full name of the student

|     | № п/п   | Criteria for evaluating steps              | Level       | 1 3 4/1/10     | SON IK      | STOR     | . egg       |
|-----|---------|--|-------------|----------------|-------------|----------|-------------|
| 3   | . No.   | 90. 1 shy 20. 90. 1 . 1 shy                | Great       | Well           | Satisfactor | Failed   | Wa. Eg      |
| C   | K. LO   | 201. 1 3kg, 25 81/kg 1                     | 90-100      | 70-89          | We con      | 0-49     | Mg.         |
| 1   | SKII    | eging of the same of the same              | s. Thurs so | Dr. Mr. 6      | 50-69       | NY KI    | SK, WS      |
| V   | 11. 5   | The correct location of the organ on the   | 18-20       | 14-17,8        | 10-13,8     | 0-9,8    | St          |
| 90  | K       | torso, skeleton and on a living person     | LV S. CKY   | io sego mix    | 1 St KI     | (s. 69n) | KL S        |
|     | 52.     | The student must give the full name of the | 18-20       | 14-17,8        | 10-13,8     | 0-9,8    | K           |
| (0) | egn     | organ and describe its general structure.  | Solution X  | S. Skillio Sie | 30 XV. 1    | SK KUS.  | Egn MY      |
| Kil | 10 V.   | Mily 24 Rus. Squ its 34                    | Ug. Egn.    | fr sky         | 19.00 gn. 1 | I SKIN   | . S. S      |
| 7   | SKILL O | iso mit is the seguint st                  | My. Egn     | Kr SKI         | Mg. Shi     | A è      | 741, JS. 67 |
| 1   | SKILL   | 29.60 Mike 1 S. Ethio 3.600 Mike           | SK KUG.     | squ'ikt        | K. Ma.      | ,du. K1  | SKII        |
| .`  | A 8     | E. Wie Mit I Shur Wie Mit                  | 1. S. KMO.  | egr "IK        | Sk. Mg.     | egn. K   | 1 84        |

### Ekus elu k ONTÚSTIK-OAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ

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| SK.      | 3. 91. V Hu. Vie 17. V Flux 60 17. 2. 14. 80. 14. 24. 14.  | 9. 9    |
|----------|--|---------|
| ,        | sty. 3 is Mix 1 style son Mix styles of the styles of the styles   | ~O.     |
| 1        | sky, were might a sky was earlight as ky was earlight as was earlight of   | Kill US |
| 7.       | ONTUSTIK-QAZAQSTAN 2002 SOUTH KAZAKHSTAN   | SKII    |
| EGI)     | MEDISINA SKMA MEDICAL ACADEMY ACADEMY  | 1 6     |
| ).<br>O  | «Онтүстік Қазақстан медицина академиясы» АҚ АО «Южно-Казахстанская медицинская академия»   | 1       |
| Mg.      | Department of "Morphophysiology" 42/11 Department of "Topographic anatomy and histology" 52/11   | 717. K  |
| The same | Work study program of the discipline "Respiratory system in normal" Page 12 of 42  | 9/11    |
| SK       | 3 The student must name the structural 18-20 14-17,8 10-13,8 0-9,8   | (o. 6)  |
| V        | elements of this organ.  | 20.     |
| 1        | 4. After listing the structural elements of the 18-20 14-17,8 10-13,8 0-9,8  | KII.    |
| D.K.     | organ, the student must show it on posters,  | SKI     |
| , j      | tablets and give a description of it.  | 1 8     |
| S. O.    | 5. During the description of the organ and its 18-20 14-17,8 10-13,8 0-9,8   | .1      |
|          | structural elements, the student should tell   | YN.K.   |
| Killio   | about the age characteristics of the organ.  |         |
| o`<br>\[ | The maximum score is 100. Total points Teacher's signature   | S. S.   |
| 5        | This off it of the off it of the way of the of the off the off   | 7.0     |
| - 1      | 2. KU, S. S. K. S. K. K. S. K. K. S. | Killio  |

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|---------------|--|--|--|-------------|
|               | 1 skug og egn  | SUNIX SKULDER                          | esentation protection  Evaluation criteria   | SK.         |
| X             |  | Squi Kr Sku Br                         | esentation protection  | SK          |
| ,             | Form   | Evaluation                             | Evaluation criteria  | Kr          |
|               | of control   | 10° 70°, 11° X                         |  | K           |
| ·             | 80° 1 X  | V777-K. 2                              | The student prepared a presentation on the topic at the appointed  | 9/1.        |
|               | 00 111.  | Great                                  | time, independently, accurately, with at least 20 concise and  | 3. 77       |
| 4             | in so, Kr  | Corresponds                            | informative slides, using at least 5 literary sources and having a   | iligi edili |
|               | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1   | to the points:                         | detailed plan, provided diagrams, tables and drawings  | Mo 6        |
|               | Presentation   | A (4.0; 95-100%)                       | corresponding to the topic, demonstrated deep knowledge of the   | V3.         |
| ,             | protection   | A- (3,67; 90-94%)                      | topic during the defense and accurately answered all the   | SKU9.       |
|               | 1 sking 2.80   | Kr S. Os.                              | questions asked.   | · X         |
|               | Fr 21 Wa.  | Well of the second                     | The student prepared a presentation on the topic at the appointed  | 1 , 5       |
| V             | protection &   | Corresponds                            | time, independently, accurately, with at least 20 concise and  | Kr          |
|               | 10° 11° 14°  | to the points.                         | informative slides, using at least 5 literary sources and having a   | N. W        |
| )<br>ا        | 10. N. V   | B+ (3.33; 85-89%)                      | detailed plan, provided diagrams, tables and drawings  | eduit       |
|               | en ith e   | B (3,0; 80-84%)                        | corresponding to the topic, demonstrated good knowledge of the   | 0.00        |
|               | 40 6gr KJ  | B- (2,67; 75-79%)<br>C+ (2,33; 70-74%) | topic during the defense, made non-fundamental mistakes when   | SO.         |
| 7             |  | CT (Z,33; /0-74%)                      | answering questions.   | Mg.         |
|               | is skug egnik skug egnik   | Satisfactory                           | The student prepared a presentation on the topic at the appointed  | gt 20       |
| 1.            | Kui ser  | F. = 3 -40 -(                          | time, independently, but carelessly, with a volume of at least 20  | eku.        |
| V             | 'K skug's eg   | to points:                             | non-informative slides, using less than 5 literary sources and the   | 1. V        |
|               | Kr 2/4.  | C (2.0; 65-69%)                        | presence of an undeveloped plan, cited an insufficient number of   | FV 5        |
| <i>&gt;</i> ) | St St 3  | C- (1,67; 60-64%)                      | diagrams, tables and drawings corresponding to the topic,  | 1           |
|               | Sqrift KT SKU  | D+ (1,0; 50-54%)                       | answered questions uncertainly during the defense, made  | 00. 1       |
|               | ing squikt sky   | This GO, Kr, c                         | fundamental mistakes   | 11).P       |
| 0             | eskugiegniky   | 2 Wa. Sqn. 15                          | The student did not prepare a presentation on the topic at the   | 80          |
|               | No. 9/2, 17  | Unsatisfactory                         | appointed time, or prepared it at  | do Eg       |
| 3             |  | demands                                | the appointed time, but not thoroughly, carelessly, with less than   | 20.         |
| _             | rug's skug's gn'ry   | to FX score                            | 20 non-informative slides, without specifying literary sources, in   | SK. 2       |
| ,             | Killo Boy  | (0.5; 25-49%)                          | the absence of a plan, made gross mistakes when answering  | SKINS       |
| F             | Si Ma.   | F (0; 0-24 %)                          | questions or could not answer questions and did not defend the   | 1 9.        |
|               | il at a.   | Squ. KJ Sky                            | presentation on the tonic  | Kr S        |
| 9             | 1 St.  | 3. %                                   | The state of the s | T. KI       |
| )             | 411. 1 KI  | , 60 11/4                              | The so its state. Egg to st 20.  | 90.         |
| d             | Checklist for evalua   | tion of SIW in histology               | er was egg to ex ex was egg. To exp. es.   | 177.        |
| 4             | Checklist for evaluation of the children of th | tion of SIW in histology               | presentation on the topic. String of the str | 1 60°       |
|               | Wa. 690 KJ   | ek, 20. 911.                           | V 24, 35, 117, V The 36, 117, 2, 11  | Wic E       |
| 3             | F, VS411.  | 1 ck1. 2.82 m                          | is the soulth sittle son to sh   | . NO.       |
|               | exu. 56, 70,   | L 1 KING BOY                           | "It & "40 89, 18 84, 48. 89. 7   | SKI,        |
|               | KING BOLL  | ik si wo.                              | 20, 15 34, 20, 39, 17 34, 30, 11, V  | · Ka        |
| É             | N 25 70.   | 9, 1 ch, 3;                            | 10. 1 11. Vi Vi VII. 60 1/4  | 2.          |

## ONTUSTIK-OAZAOSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ ONTUSTIK-OAZAOSTAN MEDISINA AKADEMIASY TA AKADEMIASY



| SK      |          | Ø.  | egn. A sky so grant of sky sign mix                            | 5          | KUO       | egn 1      | Kr Sk.        | Wa. Sy  |
|---------|----------|-----|--|------------|-----------|------------|---------------|---------|
|         | SKI      |     | o's san; to sky, voise anit, it s sky, voo, "                  | 7.Kr       | SILVIO    | ego        | KI S          | E. Ma.  |
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MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»

Department of "Morphophysiology" Department of "Topographic anatomy and histology"

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42/11 52/11 Page 14 of 42 skind.ed

Work study program of the discipline "Respiratory system in normal"

| 2. 82. 1   | 5. 50.  | The south si   |
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| Form   | Evaluation  | Evaluation criteria 1  |
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|  | Great   | It is put in the event that the student did not make any   |
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| 1 A SKILL SO X   | to the points:                                    | by theories, concepts and directions in the studied  |
| Mile 60  | A (4.0; 95-100%)                                  | discipline and gives them a critical assessment. 90-100%   |
|  | A- (3,67; 90-94%)                                 | completion of test tasks.  |
| Written ticket survey  | Well & SK   | It is put in the event that the student did not make gross   |
| (clinical tasks) and   | Corresponds                                       | mistakes during the answer, made unprincipled  |
| testing  | to the points:                                    | inaccuracies or fundamental errors corrected by the  |
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| S. 16,0 690 15   | B (3,0; 80-84%)                                   | material with the help of the teacher. Performs test tasks   |
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| J 34, 3. 11.   | Unsatisfactory                                    | mistakes during the answer, did not work out the main  |
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| SYN SKU SKUS'S SIN   | PIOTA SCORE S                                     | to use the scientific terminology of the discipline,   |
| 60, Kr 24 70.  | (0.5; 25-49%)                                     | answers with gross stylistic and logical errors. Performs  |
| 3. 9p. 17 ex.  | F (0; 0-24 %)                                     | test tasks by 0-49%.   |
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|      | Electronic resources,  | <ul> <li>Электронная библиотека Н</li> </ul> | UKIVIA - https://e-lib.ski | ma.edu.kz/genres                      |

#### **Educational resources** 11.

Electronic resources, including, but not limited to: databases, ry skugisqui. euma edu.Kl

- Электронная библиотека ЮКМА https://e-lib.skma.edu.kz/genres
- (РМЭБ) An edu.K • Республиканская межвузовская электронная библиотека SKNa.edu. SKINA. Edi Skuis Skuis skna.edu.kt . AII KZ SKIND. E skna.edu.kt SKIND. http://rmebrk.k SKUS EGILY erwa egniki was edulk? ma edu.Kl

#### OŃTÚSTIK-QAZAQSTAN MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ



АО «Южно-Казахстанская медицинская академия»

Department of "Morphophysiology" Department of "Topographic anatomy and histology" Work study program of the discipline "Respiratory system in normal"

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animation simulators, professional blogs, websites, other electronic reference materials (for example: video, audio, digests)

- Цифровая библиотека «Aknurpress» https://www.aknurpress.kz/
- Электронная библиотека «Эпиграф» http://www.elib.kz/
- Эпиграф портал мультимедийных учебников https://mbook.kz/ru/index/
- ЭБС IPR SMART https://www.iprbookshop.ru/auth
- информационно-правовая система «Зан» https://zan.k
- Medline Ultimate EBSCO https://research.ebsco.com/
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SOUTH KAZAKHSTAN SKMA MEDICAL

АО «Южно-Казахстанская медицинская академия»

Department of "Morphophysiology" Department of "Topographic anatomy and histology"

Work study program of the discipline "Respiratory system in normal"

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### 12. Discipline Policy

Requirements for students:

- 1. don't be late for classes;
- 2. do not skip classes without good reason;
- 3. have anatomical gloves, tweezers and a scalpel;
- 4. Be active during practice sessions;
- 5. be able to work in a team;
- 6. timely, on schedule, perform and deliver SIW;
- 7. do not engage in extraneous activities during classes;
- 8. Be tolerant, open and friendly to fellow students and teachers;
- 9. observe ethical standards of behavior when working with anatomical preparations and organs of the human body;
- 10. take care of the property of the department;
- 11. timely work off missed classes for good reasons;
- 12. Observe safety precautions in the classroom.
- 13. During lectures / practical classes/It is forbidden for students to SIWT;
- 14. Use mobile devices/ gadgets;
- 15. leave the study room/classroom (leave the workplace at the clinical/industrial base) without the permission of the teache

#### **Dress code requirements**

The student is obliged to:

- 1.have a clean, ironed medical gown, cap/cap;
- 2. have a neat hairstyle, short-cropped nails; (for girls: bright makeup and bright nail polish are unacceptable).

#### Penalties:

- 1. In case of a single violation of the module policy, the student receives an oral warning from the teacher.
- 2. In case of repeated violations of the module policy, the student provides an explanatory note addressed to the head of the department.
  - •3. In case of systematic violation of the discipline policy, the head of the department submits an appropriate report to the dean's office.
  - •A student who did not show up for the boundary control without a valid reason and received an unsatisfactory grade for one of the types of controls (MC1, MC2, TCsr) is not allowed to take the exam in the discipline; A student who did not show up for the MC for a good reason, immediately after he started classes, with the permission of the dean's office, receives a work sheet.
  - For 1 pass of lectures, for a disrespectful reason, the staff score is 1.0 point and is deducted from the estimates of the boundary control.
- For 1 skip of the SIW, for no good reason, the penalty point is 2.0 points and is subtracted from the SIW estimates Incentive points are taken into account according to the department's policy. Reward points are added to the assessment of the boundary control. For active participation in the work of the SNK and seminars in each discipline, the student is awarded an incentive score from 5 to 10. Если обучающиеся не набирают 50% текущего рейтинга (i.e. 30 points), then they are not allowed to take the final control (exam).

Requirements for students, attendance, behavior, grading policy, punitive measures, incentive measures, etc.

#### The student must:

- Observe medical ethics and deontology;
- No smoking at the academy;
- Keep the department clean;
- do not spoil furniture in classrooms;
- take care of textbooks;
- observe the appearance of a medical student;
- Follow safety regulations;
- Wear masks during the flu epidemic;
- do not skip classes without a good reason;
- to work out classes missed for a good reason in a timely manner, but only if the dean's office has access and at a time determined by the teacher;
- Don't be late for classes;
- have the necessary documentation in the classroom: syllabus, guidelines for classes, lectures, notebook and textbook;
- prepare for classes in good faith;
- Be active during classes;
- do not engage in extraneous activities during class: do not talk, do not smoke, do not chew chewing gum, do not eat, do not use the phone, do not listen to music, do not read newspapers and magazines, do not prepare for classes in another discipline;
- Observe silence and order during breaks;
- to perform and submit SIW in a timely manner according to the schedule (in electronic form); with verification of written works for plagiarism. Штрафные меры при невыполнении разделов работы:
- if you skip lectures for no good reason, the assessment of boundary control decreases 1 point for each missed lecture;
- if you skip the SIW without a valid reason, the score for the SIW decreases 2 points for each missed lesson; ° in case of late delivery of the DEADLINE without a valid reason (later than the specified week), the DEADLINE is not accepted:
- in case of a single violation of the discipline policy, a warning is given to the student;
- in case of systematic violation of the discipline policy, information about the student's behavior is transmitted to the dean's office of the faculty;

Criteria for non-admission to the final control

Penalty points:

a student who has received an unsatisfactory grade for one of the types of control (boundary control 1, boundary control 2, average grade of the current control) is not allowed to take final control of the discipline.

### Academic policy based on the moral and ethical values of the Academy www.ukma.kz Regulations and Rules of YUMA JSC. Academic policy. Paragraph 4 of the student's Code of Honor Item 10. Organization of the educational process Item 10. Organization of the educational process **Final control** – students who have fully mastered the discipline program and scored an admission rating are allowed to take the exam. The final score is calculated automatically based on the average score of the current control, the average score of the boundary controls and the final control score: Admission rating (60%) = average score of boundary controls (20%) + average score of the current control The average score of boundary controls = MC1 + MC2 / 2The average score of the current control = the arithmetic mean sum of the current scores, taking into account the average score for SIW and penalty points. Final score (100%) = MCaver $\times 0.2 + CCaver \times 0.4 + FC \times 0.4$ Final score (100%)= Admission rating (60%) + Final control (40%) An example of calculating a student's final grade:

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The average current score, taking into account SRO and penalty points:

CCaver\*\* CCaver + SIWaver - Kaver = 80 + (80 - 2.0) = 158 = 79.02 2 2 Admission rating (60%) =MCsr x.0.2 + CCsr x 0.4 =  $84 \times 0.2 + 79.0$ Final control (40%), for example, the student answered 45 or 0 x 0.4 = 36 points inal score (100%) =

RD (60%) +AR (40%) = 48.4 + 36 = 9MCaver x 0.2 + CCsr x 0.4 + F°

Caver - average assessing - average assessing - average assessing - average assessing - 1.00%points

Lare, taking into account SRO and penalty points:

Laver\* = CCaver + SIWaver - Kaver = 80 + (80 - 2.0) = 158 = 79.02 2 2

Admission rating (60%)=MCsr x 0.2 + CCsr x 0.4 = 84 x  $0.2 + 79.0 \times 0.4 = 16.8 + 31.6 = 48.4$  points

Final control (40%), for example, the student answered 45 questions correctly out of 50 (90%),  $90 \times 0.4 = 36$  points

Final score (100%) =

1) RD (60%) + AR (40%) = 48.4 + 36 = 84.4 points

?) MCaver x 0.2 + CCsr x 0.4 + FC x  $0.4 = 84.0 \times 0.2 + 70\%$ (Kaver - average assessment of midterm contains assessment of the final K 1 - midterm

K 3 - midterm

| 90.   | CCaver = CCaver + SIWaver - Kaver = $80 + (80 - 2.0) = 138 = 79.0$   |                | St.        |  |  |  |  |  |
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| , ,   | 2 2 2  A divisorian nating (600) -MCon v 0 2 + CCon v 0 4 - 94 v 0 2 + 70 0 v 0 4 - 16 9 + 21 6 - 49 4 maints  | 1              |            |  |  |  |  |  |
| 00    | CCaver* = CCaver + SIWaver - Kaver = 80 + (80 - 2,0) = 158 = 79,0  2 2 2  Admission rating (60%)=MCsr x 0.2 + CCsr x 0.4 = 84 x 0,2+ 79,0×0,4 = 16,8+31,6=48,4 points  Final control (40%), for example, the student answered 45 questions correctly out of 50 (90%),  90 x 0.4 = 36 points  Final score (100%) =  1) RD (60%) + AR (40%) = 48,4 + 36 = 84,4 points  2) MCaver x 0.2 + CCsr x 0.4 + FC x 0.4=84.0 x 0.2 + 79.0 x 0.4 + 90 x 0.4=16,8+31,6+36=84,4 points  MKaver - average assessment of midterm controls  MK - average assessment of current control  FR assessment of the final control  MK 1 - midterm control 1  MK 2 - midterm control 2  AD - admission rating   |                |            |  |  |  |  |  |
| 10.   | Final control (40%), for example, the student answered 43 questions correctly out of 30 (90%), $0.0 \times 0.4 = 36 \text{ points}$  |                | Fr         |  |  |  |  |  |
| ~3    | 90 x 0.4 = 36 points<br>Final score (100%) =<br>1) RD (60%) + AR (40%) = 48,4 + 36 = 84,4 points<br>2) MCaver x 0.2 + CCsr x 0.4 + FC x 0.4=84.0 x 0.2 + 79.0 x 0.4 + 90 x 0.4=16.8+31.6+36=84.4 points  | 00,            | ,          |  |  |  |  |  |
| CK,   | Final score (100%) = $1000000000000000000000000000000000000$   | ð.             | 90         |  |  |  |  |  |
| `     | 1) KD $(00\%)$ + AK $(40\%)$ = 40,4 + 30 = 04,4 points<br>2) MCover v 0.2 + CCor v 0.4 + EC v 0.4=94.0 v 0.2 + 70.0 v 0.4 + 00 v 0.4=16.9 (21.6+26=94.4 points   | -0             |            |  |  |  |  |  |
| 3     | 2) MCaver x 0.2 + CCsr x 0.4 + FC x 0.4=84.0 x 0.2 + 79.0 x 0.4 + 90 x 0.4=16,8+31,6+36=84,4 points MKaver – average assessment of midterm controls MK– average assessment of current control FR assessment of the final control MK 1 - midterm control 1 MK 2 – midterm control 2 AD admission rating   | Tille          | (          |  |  |  |  |  |
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