

## Exams, number and type of the exam questions

The exams in Anatomy and Cytology, Histology and Embryology in the summer session of the academic year 2019- 2020 will be taken online via the platform Microsoft Office 365 and the applications MS Teams, MS Forms.

➤ **Technical requirements for participation of the students in the exam:**

1. Device with an installed camera, microphone and network connection with download and upload speed not less than 5 Mbps. You can check your speed here: <https://fast.com/>. Students without an installed camera or microphone will not be allowed to take the exam.
2. Installed or access via browser to MS Teams. If you use browser we recommend last versions of Microsoft Edge or Google Chrome.

➤ **Exams:**

1. Students are not allowed to use a keyboard unless they answer an open question.
2. Students have to check their access to the system before the announced hour so possible problems with the connection will be removed. The students have to be in the meeting not later than 10 minutes before the beginning of the exam.
3. The exam will be taken in the form of a test which will be assigned via **Assignments** in MS Teams and MS Forms. Students have to open the test pressing **View Assignments** and start filling it. The test will be 90 points (for students in Medicine and Dental medicine), 80 points (for the students on Pharmacy). Approximate distribution of the points, types of questions and the duration of the exams for the different specialties are presented in the following chart:

<b>MEDICINE AND DENTAL MEDICINE</b>						
<b>Type of question</b>	<b>Type of question</b>	<b>Points</b>	<b>Time</b>	<b>Total number of questions</b>	<b>Total number of points</b>	<b>Total time</b>
<b>Closed questions</b>	<b>MCQs with 1 correct answer from two or more options</b>	<b>1</b>	<b>30 sec</b>	<b>90</b>	<b>90</b>	<b>45 min</b>

PHARMACY						
Closed questions	MCQs with 1 correct answer from two or more options	1	30 sec	80	80	40 min

The exempted students from some sections of the exam will attend shorter exam lasting half of the given time, more details will be given on the website of the department: [www.anatomy.plcnet.org](http://www.anatomy.plcnet.org) .

4. Students have to switch on the cameras and the microphones immediately after receiving the test, and they have to be switched on during the whole exam!
5. Depending on the quaestor judgement they can demand from the students to share their screen or give another look under different angle to the room.
6. When the students finish the test they press **Submit**.
7. Tests, received after the ending time, will not be evaluated, so the students will receive poor mark.
8. These instructions are subject to update at unexpected technical difficulties and in the process of improving the exam methods and procedures.

## Rules for the evaluation depending on the achieved results

1. The evaluation scale of the results from the test is as it follows:

- 0 %- 60 % - 2 (poor)
- 60 %- 70 % - 3 (average)
- 70 % - 80 % - 4 (good)
- 80 % - 90 % - 5 (very good)
- 90 %- 100 % - 6 (excellent)

2. The final grade from the exam determines to what degree the student has achieved the purpose of the education set in the beginning. It is multicomponent and includes grade form the final exam and grade form current control. A coefficient of significance is determined for each of the components participating in the final exam, the total summary of the coefficients has to be

always 1. The final grade is a summary of the grades from the different components multiplied by the corresponding coefficients of significance:

$$Q_{\text{final grade}} = K_1 Q_{\text{grade from current control}} + K_2 Q_{\text{grade from exam}}$$

$$K_1 = 0.20; K_2 = 0.80.$$

3. The results from the exam will be announced after forming a complex grade.

## Recommended materials for students

All the materials from the lectures in Anatomy and Cytology, Histology and Embryology for the summer semester of 2019- 2020 will be uploaded in SharePoint in the platform Microsoft Office 365. Conspects, recommended sources for education and announcements for the exams will be given in the website of the department: [www.anatomy.plcnet.org](http://www.anatomy.plcnet.org) .

## Textbooks

Central Nervous System. Vankov's Anatomy, M. Vankova. STENO publ.house, Varna, 2015.

Gray's Anatomy for Students, Elsevier; 4th edition, 2019.

Stevens, Lowe, Human Histology, 2nd edition, Chapman and Hall, 1997.

Sobotta Anatomy Textbook: English Edition with Latin Nomenclature. Jens Waschke, Tobias M. Böckers, Friederich Paulsen eds., 1st edition, Urban & Fischer, 2019.  
<https://www.elsevier.com/books/sobotta-anatomy-textbook/paulsen/978-0-7020-6760-0>.

High-Yield Neuroanatomy (High-Yield Series) by James D. Fix (Sep 2, 2008).

Functional Neuroanatomy: Text and Atlas, 2nd Edition (LANGE Basic Science) by Adel Afifi and Ronald Bergman (Jan 28, 2005).

Chaurasia BD. Human anatomy. Regional and applied. Third edition. CBS Publishers & distributors. New Delhi, India, 1998.

Romanes GJ. Cunningham's manual of practical anatomy. Thorax and abdomen. Oxford University Press. New York, 1996.

Patrick W. Tank. Grant's Dissector (Tank, Grant's Dissector). 14th Edition. Lippincott Williams & Wilkins, 2008.

Basic Histology, I.C. Janqueira

Clinical and Functional Histology for Medical Students, Richard S. Snell

Histology, R. Henrikson

Histology – A Text and Atlas, M. Ross, Sixth edition

Human embryology, Inderbir Singh, Sixth edition

Fundamentals of Anatomy and Physiology for nursing and Healthcare students, edited by Ian Peate and Muralitharan Nair, Wiley Blackwell, 2017.

B. Kitov, T. Karamanlieva, T. Kitova, N. Traykova, I. Kehayov, D. Milkov, Clinical neuroanatomy, Lax Book, Plovdiv, 2017.

## **Handbooks**

MCQs in anatomy. A self-testing supplement to human anatomy. Locomotory & Central Nervous System. S.T. Sivkov, S.S. Novakov. 2012.

Atanassova P, Koeva I, Petrova E, Penkova N, Trichkova V. A Practicum of Organ Histology with CD – Interactive atlas of anatomy and histology of internal organs, edition of the Department of anatomy, histology and embryology, Medical University of Plovdiv.

S. Novakov, Y. Koeva, A. Fusova, F. Popova. MCQs in anatomy, a self-testing supplement to human anatomy - All Systems (For Dental Students), Med Publ House “Lax Book”, Plovdiv, 2014.

P. Atanassova, Y.Koeva, E.Petrova, N.Penkova, V.Trichkova. A practicum for laboratory exercises in histology and embryology - part I., Plovdiv. ISBN- I 954-9806-30-8

P. Atanassova, Y.Koeva, E.Petrova, N.Penkova, V.Trichkova. A practicum for laboratory exercises in histology and embryology - part II, Plovdiv. ISBN-II 954-9806-31-6

Yveta Koeva, Pepa Atanassova, Elisaveta Petrova, Nadja Penkova, Valentina Trichkova Handbook in Cytology, Histology and Embryology, Ed. Y. Koeva, Plovdiv PH VAP, 2011, ISBN 978-954-8326-33-9

S.T.Sivkov, P.K. Atanasova, S.S. Novakov. MCQ’s in Anatomy. A self-testing supplement to human anatomy. Internal organs and topographic anatomy. Medical Publishing House “VAP”, Plovdiv, Publishing House “Makros”, Plovdiv. 2013. ISBN 978-954-702-986

## **Atlases**

Sobotta. Atlas of Human anatomy, 15th edition, Urban & Fisher, 2011

Drake R, Wayne Vogl A., Mitchell A, Gray's Atlas of Anatomy, 2e, 2015, Churchill Livingstone.

Krstic, Human Microscopic Anatomy, Springer, 1997.

Delchev S., Novakov S., Ivanova R. Photographic atlas of human anatomy, ed. S.Sivkov, Lax book, 2019, Plovdiv.

Delchev S., Novakov S., Ivanova R. Photographic atlas of human anatomy, bilingual edition, ed. S.Sivkov, Lax book, 2016, Plovdiv.

**Website of the Department of Anatomy, Histology and Embryology:**

[www.anatomy.plcnet.org](http://www.anatomy.plcnet.org)