

Dear colleagues,

Dental students,

*The exams in general and in clinical pathology will take place **in person** (June 2021) in accordance with the following rules. Please **read carefully!***

The exams will start at 8.00 am.

Only students who are assigned to that particular day will be allowed in the auditorium. Masks are mandatory (wearing gloves is optional).

The exam will consist of two parts – part 1 - a test with 30 closed questions and part 2 (for those who passed the 1st) - consisting of 10 open questions.

The results of the exam will depend on your answers to **both parts**.

Part 1 - test with closed questions (mcqs)

It consists of thirty closed questions with only **one correct** answer. Each correct answer to the first 10 questions (chosen from two options) brings 1 point; the correct answer to the next 17 questions (you choose from 4 possible options) brings 2 points, and to the last 3 questions (clinical cases with four options) - 3 points.

*The time you have to answer each closed question from those giving 1 and 2 points is approximately 20 - 30 seconds. As for the last three - approximately 3 mins. **Total - 30 minutes.***

The maximum number of points is 53. To pass the first part of the exam you must have a minimum of **33p.** (over 60%).

Total number of points is 53 (10x1 + 17x2 + 3x3) 61% - 33 points.

Under 32 points - **poor – 2.**

The grades of those who successfully pass the test (1 part) will be determined by the following rule:

33 - 37 points – Average (3)

38 - 43 points - Good (4)

44 - 48 points – Very good (5)

49 - 53 points - Excellent (6)

For those who fail the first part, the exam ends with a Poor grade (2).

Part 2 - open questions

There will be 5 questions from general pathology and 5 questions from clinical pathology. For each one you will have approximately 6 minutes per question - a total of 60 minutes.

Your answers should be short, to the point, and based on the literature specified at the end.

The evaluation of the answers will be carried out by a commission - habilitated lecturer and an assistant. The assessment will be made based on your knowledge on the information presented in the textbooks, lecture course and practical course (exercises).

The commissions reserve the right to evaluate student answers that are implausible and identical to one another, with low marks.

Each individual question will be evaluated with grades from poor (2) to excellent (6) from the commission. To complete the exam successfully, you must have the correct answers to **at least 7 open-ended questions (over 60%)** with a grade of at least average (3). The marks of the open questions will determine your final grade for the 2nd part of the exam.

The final grade will be calculated from the grades from both parts.

For example - first part - Average (3,) - second part - very good (5), final grade - good (4).

If your grade on the second part is Poor (2), no matter the grade on the first one, the exam will end with a Poor final grade.

Exam duration - 30min. (1 part) + 60 min (2 part) = 90 min (2 academic hours). The time between the two parts is not included.

There will be no oral exam!

Questionnaire examples:

№	Closed questions	Answer	Approximate time for each question	Points
1.	Is necrosis coagulative in ischemic cerebral infarction?	a) yes b) no (correct)	20 sec	1p.
2	Does tumour growth act as a compensatory adaptive process for the organism?	a) yes (wrong answer) b) no	20 sec	0p.

1 4	What type of calcification develops in complicated atherosclerotic plaques?	a) metastatic b) degenerative (correct) c) metabolic d) physiological	30 sec.	2p.

28	A 57-year-old man, cachectic, smoker, has developed a tumour formation with zones of decay, whitish colour and granular structure, located in the upper right lobe of the lung. The pleura is dotted with small, dense nodules. Hemorrhagic pleurisy and pericarditis were also found. The hilar and mediastinal lymph nodes are enlarged with a whitish color. Give the correct diagnosis:	a) Chronic bronchitis with emphysema b) lung cancer with metastases (true) c) tuberculosis d) bronchiectasis	2 - 3 min.	3 t.

Open questions:

From general pathology:

- What is fibrinoid necrosis? What organ localisations do you know?

FN develops after severe destruction of collagen, which releases elements that comprise it (proteins) - albumins, globulins, fibrinogen, AG-AT complexes (fibrinoid), etc., which when stained are dyed as fibrin; in addition, there is cell necrosis in the center of destruction. That is why it is also called fibrinoid necrosis. Most often, FN is located at the bottom of an active chronic ulcer or acute ulcer in the stomach or duodenum. FN is also found in the wall of arteries in hypertensive crises developed due to malignant hypertension as a result of ischemic endothelial damage and ingestion of plasma proteins in the vessel wall.

Correct answer - excellent (6)

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From clinical pathology:

- What is lung cancer? Where does it originate from? What histological types are you familiar with? In which organs does it most often metastasise and by what route?

Lung cancer is a malignant epithelial tumour. It develops as a result of malignant transformation of the epithelial cells of the bronchi (most often after metaplasia), from the epithelium of the bronchial glands or from that of the alveoli. The histological types are squamous cell and adenocarcinoma. Gives metastases to the liver.

Correct but incomplete answer - 2 points.

Omitted - neuroendocrine carcinomas of the lungs - small-cell and large-cell, as well as adenosquamous. The ways of metastasis are not mentioned either - by lymph: in hilar, paratracheal, mediastinal, supraclavicular lymph nodes, also in the pleura; and by blood - in the liver (correct), but also in the brain, adrenal glands and bones. By canalicular way - along the bronchi in adjacent organs.

Training aids:

1. Sample Tests - upload them on the website of the Department [h ttps://www.pathology-plovdiv.com/](https://www.pathology-plovdiv.com/)
2. Workbooks and CDs
3. Pathology practical book / Harsh Mohan. - 3rd ed. . - New Delhi: Jaypee brothers medical publ., 2013. - 282 p. ISBN 978-93-5090-266-0 7
4. Lecture course in general and clinical pathology: For dental students third course / Elena Poryazova, Veselin Belovejdov, Iliya Bivolarski, Silvia Genova, Desislava Bojkova, Desislava Tashkova, Denitza Serteva, Maria Koleva, Milena Gulinac, Marina Tomova, Svitlana Bachurska, Krasimir Dangalov; Ed. Elena Poryazova - Plovdiv: Lax book, 2017. - 256 p. ISBN 978-619-189-066-8

and additional teaching aids presented on the university website - MU-Plovdiv, Med. Faculty, Departments - Department of General and Clinical Pathology, textbooks.