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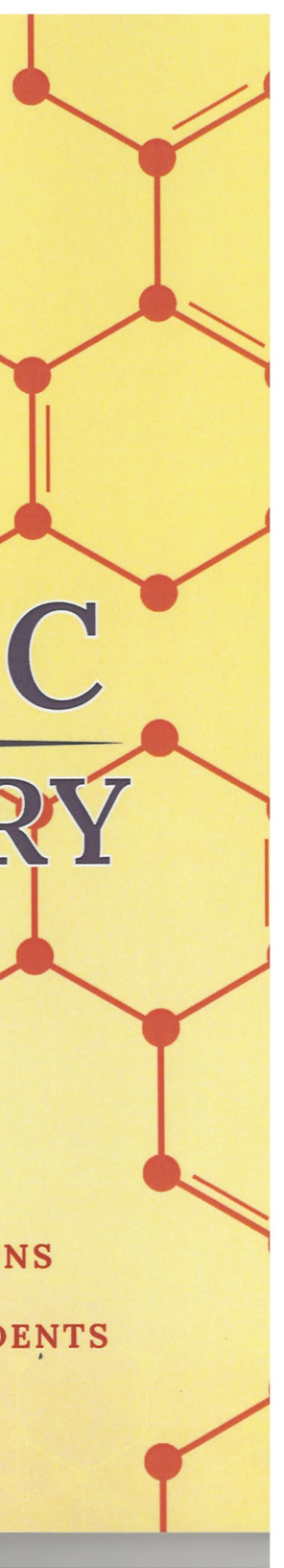
**ORGANIC CHEMISTRY**

MULTIPLE CHOICE QUESTIONS WITH EXPLANATIONS  
FOR PHARMACY FACULTY STUDENTS

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MINISTRY OF HEALTH OF UKRAINE  
BOGOMOLET'S NATIONAL MEDICAL UNIVERSITY

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FOR PHARMACY FACULTY STUDENTS

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Kyiv 2022



Recommended by the Academic Council of Bogomolets National Medical University as a study guide for students of higher pharmaceutical education establishments (minutes No. 7 23 February 2022)

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**Органічна хімія. Тестові завдання з поясненнями для студентів фармацевтичного факультету (англійською мовою):** навчальний посібник / І.В. Ніженковська, А. Д. Кустовська, О.І. Головченко, – К.: ФОРМ-Літ, 2022. – 222 с.

ISBN 978-617-7533-92-3

ISBN 978-617-7533-92-3

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## INTRODUCTION

The textbook "Organic Chemistry. Test tasks with explanations" for pharmacy faculty students were created by teachers of the Department of Medicinal Chemistry and Toxicology of the Pharmaceutical faculty of the Bogomolets National Medical University to improve the quality of preparation of students for a comprehensive independent assessment of qualification characteristics, the USQE-1 (which includes the discipline of "Organic chemistry").

The textbook is prepared by the standard curriculum of the discipline "Organic Chemistry" for students majoring in 226 "Pharmacy, Industrial Pharmacy".

According to the content, structure, logic, and sequence of presentation of the material, the textbook "Organic Chemistry. Test tasks with explanations for students of the Pharmaceutical faculty "is an original publication that has practical significance for better mastering the course of organic chemistry.

The section with test questions is systematized by the order of presentation of materials in the manual. Variants of the



presented test questions were prepared based on open test tasks, which were offered for control of students' knowledge at the USQE-1 in the specialty "Pharmacy, Industrial Pharmacy" for the previous 17 years.

The textbook is aimed at the self-control of knowledge in organic chemistry in preparation for the USQE-1 for full-time students and part-time students majoring in Pharmacy, Industrial Pharmacy ».

CLASSIFICATION AND NOMENCLATURE OF ORGANIC COMPOUNDS. CHEMICAL BOND.		
	TEST TASKS	EXPLANATION OF THE CORRECT ANSWER
1.	<p>According to the structure of the carbon skeleton, all organic compounds are divided into:</p> <p><b>A.</b> * Acyclic and cyclic  <b>B.</b> Aromatic and carbocyclic  <b>C.</b> Heterocyclic and oxygen-containing  <b>D.</b> Arenes and alkenes  <b>E.</b> Alkanes and cycloalkanes</p>	<p><b>Correct answer: A</b> (Acyclic and cyclic)            According to the structure of the carbon skeleton, all organic compounds are divided into acyclic and cyclic. Acyclic compounds are open-chain substances. Cyclic substances contain closed chains in their structure.</p>
2.	<p>Determine which of the following cyclic compounds is carbocyclic:</p> <p><b>A.</b> * Benzene  <b>B.</b> Furan  <b>C.</b> Tetrahydrofuran  <b>D.</b> Pyridine  <b>E.</b> Hexane</p>	<p><b>Correct answer: A</b> (Benzene)            Carbocyclic compounds are compounds that contain only carbon and hydrogen atoms in the ring. Among these compounds, only benzene is a carbocyclic compound. Compounds (B), (C), (D) belong to heterocyclic compounds because their cycles include heteroatoms (Oxygen and Nitrogen). Substance (E) hexane is an acyclic aliphatic compound.</p>
3.	<p>Among the presented compounds, determine the one that belongs to alicyclic hydrocarbons:</p> <p><b>A.</b> * Cyclohexene</p>	<p><b>Correct answer: A</b> (Cyclohexene)            Alicyclic hydrocarbons include carbocycles that are not aromatic. They are divided into saturated (cycloalkanes) and unsaturated</p>



Навчальний посібник

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## **ОРГАНІЧНА ХІМІЯ**

ТЕСТОВІ ЗАВДАННЯ З ПОЯСНЕННЯМИ  
ДЛЯ СТУДЕНТІВ ФАРМАЦЕВТИЧНОГО ФАКУЛЬТЕТУ

(англійською мовою)

Формат 60x84/16.

Ум. друк. арк. 18,67. Гарн. Loga. Друк офсетний.

Замовлення № 57 від 28.06.2022 р.

Видавець і виготовлювач (друк):

ФОП Лопатіна О. О.

[www.publishpro.com.ua](http://www.publishpro.com.ua)

тел.: +38 044 501 36 70

Свідоцтво суб'єкта видавничої справи ДК № 5317 від 03.04.2017