

**TOPICS AND BIBLIOGRAPHY OF THE ADMISSION EXAM  
SESSION JULY-SEPTEMBER 2024**

**STUDY PROGRAM MEDICINE, MEDICINE (IN ENGLISH), MEDICINE (IN  
FRENCH),**

**BIOLOGY**

**Written test**

1. Introduction to Anatomy and Physiology
2. Cells and Cell Physiology
3. Tissues
4. Skin System
5. Bones and joints
6. Bone system
7. Muscle Tissue
8. Muscular system
9. Nervous Tissue
10. Organization of the nervous system
11. Sense Organs
12. Endocrine system
13. Blood
14. Cardiovascular system
15. Respiratory system
16. Digestive system
17. Metabolism and Nutrition
18. Urinary system
19. Male Reproductive System
20. Female Reproductive System

### **Recommended Bibliography :**

1. BARRON'S - Anatomie și fiziologie umană pentru admiterea la facultățile de medicină (Human Anatomy and Physiology for Admission to Medical Schools), edited by Barbara Krumhardt and I. Edward Alcamo
2. Biology, textbook for the XI year - Cristescu D., Sălăvăștru C., Voiculescu B., Niculescu C., Cârmaciu R., Corint Publishing House, Bucharest, 2014
3. Biology - Textbook for the XIth year, Authors: Roșu Ionel, Istrate Călin, Ardelean Aurel, Corint Publishing House, 2006, (or 2008 edition)
4. Anatomia și fiziologia umană, manual pregătitor pentru admiterea în învățământul superior (Human Anatomy and Physiology, Preparatory Manual for Admission to Higher Education) – Aurel Ardelean, Ionel Rosu, Calin Istrate, Valentin Vașloban, ed Corint, ISBN: 973-9413-72-2, U.V.V.G. Arad University Library
5. Atlas of Human Anatomy (5th ed.) - Frank H. Netter
6. Atlas d'anatomie humaine (4th ed.) -Frank H. Netter

## **ORGANIC CHEMISTRY**

### **Written test**

#### **1. Composition and structure of organic compounds**

Chemical bonds. Chains of carbon atoms.

Composition and structure of organic compounds

Classification of organic compounds

Isomerism. Constituent isomers and stereoisomers.

#### **2. Organic compounds with simple functions**

Alcohols

Phenols

Amines

Carboxylic acids and carboxylic acid derivatives

#### **3. Mixed-Function Organic Compounds**

Saccharides (carbohydrates)

#### **4. Biologically Important Organic Compounds**

Protein

Fat

Vitamin

Medications and drugs

### **Recommended Bibliography :**

1. Luminița Vlădescu, Corneliu Tărăbășanu-Mihăilă, Luminița Irinel Doicin. **Chemistry – manual pentru clasa aX-a (Chemistry – textbook for the tenth year)**, Art Editorial Group, 2010

2. Elena Alexandrescu, Viorica Zaharia, Mariana Nedelcu. **Chimie C1, clasa a XI-a (Chemistry C1, eleventh year)**, LVS Crepuscul Publishing House, 2006

3. Multiple choice tests for admission - <http://librarie.uvvg.ro/product/grile-admitere/>

## **STUDY PROGRAM GENERAL NURSING / BALNEO-PHYSIO-KINESITHERAPY AND RECOVERY**

### **BIOLOGY**

#### **Written test**

- 1. Cells and Cell Physiology**
  - Cell Structure
  - Mitosis and Cell Reproduction
- 2. Tissues**
  - Epithelial tissue
  - Connective tissue
  - Muscle Tissue
- 3. Skin System**
  - Skin
  - Cutaneous annexes
- 4. Bones and joints**
  - Bone
- 5. Bone system**
  - Axial skeleton
  - Limb skeleton
- 6. Muscle Tissue**
  - Skeletal striated muscle
- 7. Muscular system**
  - Muscles of the extremity of the body
  - Head and trunk muscles
- 8. Sense Organs**
  - Eye
  - Ear
- 9. Cardiovascular system**
  - Heart
  - Blood Vessels
- 10. Respiratory system**
  - Anatomy of the respiratory system

## **11. Digestive system**

Gastrointestinal tract

Annex Bodies

## **12. Urinary system**

Loins

Ancillary structures

## **13. Male Reproductive System**

Testicles

Ducts and ancillary organs

## **14. Female Reproductive System**

Ovaries and ancillary organs

### **Recommended Bibliography :**

1. BARRON'S - Anatomie și fiziologie umană pentru admiterea la facultățile de medicină (Human Anatomy and Physiology for Admission to Medical Schools), edited by Barbara Krumhardt and I. Edward Alcamo
2. Biology, textbook for the XI year - Cristescu D., Sălăvăstru C., Voiculescu B., Niculescu C., Cârmaciu R., Corint Publishing House, Bucharest, 2014
3. Biology - Textbook for the XIth year, Authors: Roșu Ionel, Istrate Călin, Ardelean Aurel, Corint Publishing House, 2006, (or 2008 edition)
4. Anatomia si fiziologia umana, manual pregatitor pentru admiterea in invatamantul superior (Human Anatomy and Physiology, Preparatory Manual for Admission to Higher Education) – Aurel Ardelean, Ionel Rosu, Calin Istrate, Valentin Vașloban, ed Corint, ISBN: 973-9413-72-2, U.V.V.G. Arad University Library

Approved by the Council of the Faculty of Medicine on 13.02.2024.

DEAN

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