

## Témata absolutoria ke zkoušce z anglického jazyka.

**Obor:** Diplomovaný zdravotnický laborant  
**Studijní skupina:** 3. DZL  
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**Zkoušející:** Mgr. Ludmila Faltýnková.

### **1. Human body**

- Outer description of the human body
- Basic internal organs and systems
- Cells and tissues – basic structures of the cell and their functions, types of tissue, cell division

### **2. Cardiovascular system**

- Structure and functions of the heart and circulatory system
- Circulatory loops: Systemic and pulmonary circulation, blood vessels
- Blood and its elements, blood types
- Diseases and disorders of the cardiovascular system

### **3. Respiratory system**

- Upper and lower respiratory tract structure and functions
- Types and phases of respiration
- Diseases and disorders of the respiratory system

### **4. Digestive system**

- Gastro intestinal tract and accessory organs, structure and functions
- Processing food and nutrients, digestion
- Disorders and diseases of the digestive tract, common symptoms

### **5. Urinary system**

- Basic organs structure and functions
- Nephron and its structure and function
- Urine – composition, disorders
- Diseases of the urinary system

### **6. Locomotors system**

- Functions of the skeletal and muscular system
- Types and structure of bones
- Types of muscles, joints, tendons, ligaments, cartilages
- Disorders of the locomotor system

## **7. Central nervous system**

- Function and structure of the brain and spinal cord
- Neuron and its structure and function, action potential
- Neurotransmitters
- Disorders and diseases of the CNS

## **8. Peripheral nervous system**

- Structure and functions of nerves
- Classification of nerves
- Somatic and autonomic nervous system
- Reflex arch
- Disorders of the PNS

## **9. Reproductive system**

- Female reproductive organs, structure and functions
- Male reproductive organs, structure and functions
- Conception, pregnancy and labour - complications
- Disorders and diseases of the reproductive system

## **10. Endocrine system**

- Hormones and endocrine glands definition
- Structure and functions of the endocrine system
- Main endocrine glands, their hormones and functions
- Disorders of the endocrine system

## **11. Senses**

- Definition of a sense, human senses
- Eye – structure, functions
- Ear – structure, functions
- Disorders of the eye and ear
- Other sense organs and sensory modalities

## **12. Skin**

- Structure and functions of the skin and its accessory structures
- Receptors in the skin
- Disorders of the skin and skin protection
- Skin parasites

## **13. Healthy lifestyle**

- Healthy lifestyle definition
- Nutrients, vitamins, minerals – balanced diet
- Food pyramid, drinking regime
- Factors of healthy lifestyle
- Hygiene

#### **14. First aid**

- First aid definition, PPP
- ABC of CPR, situations when first aid is needed
- First aid in particular situations

#### **15. Hospital**

- Hospital definition and types
- Patient classification
- Hospital departments and their specialities
- Admission to hospital
- Hospital staff and equipment – examination with special devices

#### **16. My future profession**

- Education and training required
- Job duties and responsibilities of a pharmacy technician
- Pharma lab activities, compounding medicines
- Further education

#### **17. Medication and its effects**

- Classification of medications
- Forms and types of medication, effects of medication
- Dose and dosage
- Routes of medication administration
- Clinical trials
- Major discoveries in history

#### **18. Diseases and their prevention**

- Definition of a disease, disorder, syndrome
- Classification of symptoms
- Stages of infectious diseases
- Classification of diseases - examples
- Types of prevention

#### **19. Drugs and addiction**

- Definition of a drug and addiction
- Ways of drug classification
- Recreational/socially tolerated drugs
- Addiction treatment

#### **20. In a lab**

- Definition of a laboratory
- Laboratory equipment, microscopes
- Activities in a clinical lab
- Basic laboratory tests
- Laboratory safety and safety equipment
- First aid in the lab

## 21. Chemistry

- Classification of chemistry
- Basic terminology: element, molecule, compound, mixture ...
- Chemical bonds, their types and occurrence
- Some most common elements and molecules

## 22. Histology

- Definition of histology
- Types of tissues and their characteristics
- Sample preparation, staining
- Equipment needed

## 23. Microbiology

- Definition and microorganism classification
- Significant microbiologists in history
- Bacteria – types, structure, antibiotics, bacterial diseases
- Viruses – classification and viral diseases
- Other microorganisms – fungi, protozoa, prions etc.
- Epidemiology

## 24. Immunology

- Definition and functions of human immune system, organs connected to immunity
- Immunity and its types
- Antigens and antibodies – their definition and types
- Clinical immunology – definition and basic terminology
- Immune system disorders

## 25. Haematology

- Definition of haematology
- Blood and its components (RBCs, WBCs, platelets ...)
- Blood groups – systems of classification
- Different types of blood diseases
- Blood tests

Vypracovala:

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Dne: ..... 31. března 2023