

**Анализ освоения дисциплины 1-курса по дисциплинам «Human anatomy» и «Human histology» 1-семестр за 2024-2025 учебный год**

**По предмету «Human anatomy1» из 779 студентов прошли 781**

**1. Identify the main distinguishing feature of all thoracic vertebrae is:**

- 1) hole in the transverse processes;
- 2) small vertebral body size;
- 3) costal fossae on the vertebral body;
- 4) location of articular processes in the sagittal plane;

**2. Determine the proximal end of the femur has:**

1. head, neck, trochanter major, minor;
2. medial and lateral condyles, patella;
3. popliteal and patellar surfaces, medial and lateral epicondyles;
4. head, trochanter major, minor, lineae aspera, popliteal surface;

**3. Determine the middle cranial fossa with the infratemporal fossa is communicated by:**

- 1) Optic channel;
- 2) Foramen rotundum;
- 3) upper orbital fissure;
- 4) spinous foramen;

**4. Specify the location of attachment of the anterior serratus:**

- A. Medial edge and the lower angle of the scapula
- B. Crest of the lesser tubercle of the humerus
- C. Small tubercle of the humerus
- D. Coracoid process of the scapula

**5. Indicate the muscles that simultaneously extend the thigh and turn it outward:**

1. gluteus medius muscle
2. small gluteal muscle
3. gluteus maximus muscle
4. quadratus muscle of the thigh

**6. Determine the skeletal muscles of the tongue include:**

1. transverse muscle;
2. palatine-pharyngeal muscle;
3. glossopharyngeal muscle;
4. mental-lingual muscle;

**7. Find the longitudinal fold of the duodenum 12 is located:**

- 1) in the upper part of the duodenum 12;
- 2) in the descending part.
- 3) in the horizontal part.
- 4) in the ascending part.

**8. Characterize, the pleural cavity contains;**

1. fluid
2. air
3. carbon dioxide
4. oxygen

**9. Identify the structures located in the medulla of the kidney:**

1. Kidney corpuscles
2. Direct renal tubules
3. Kidney pyramids
4. Distal convoluted tubule

**10. Highlight where sperm are produced:**

- 1) in convoluted seminiferous tubules;

- 2) in direct seminiferous tubules;
- 3) in the mediastinum of the testis;
- 4) in the efferent tubules;

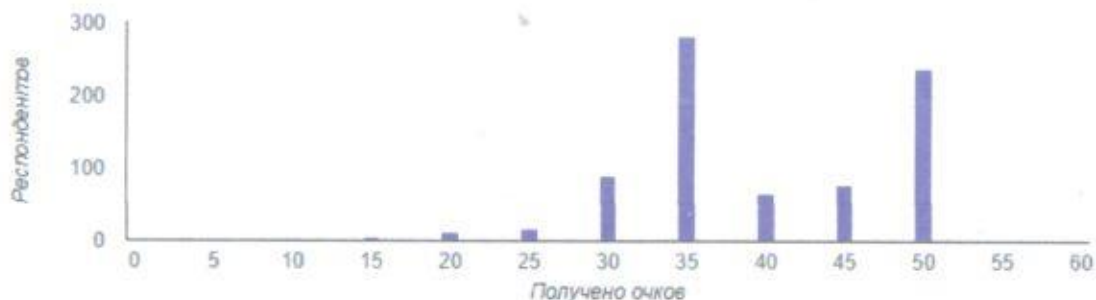
## III. Статистика

**Удовлетворительно**  
Баллов: 39,77 из 60

**Медиана**  
Баллов: 35 из 60

**Диапазон**  
Баллов: от 0 до 50

Распределение баллов



## По предмету «Human histology I» из 779 студентов прошли 751

1. Ultraviolet microscopy allows you to:
  - a) **increase the resolution of the microscope;**
  - b) determine the amount of a substance in cells;
  - c) detect substances of various chemical nature in cells and tissues;
  - d) determine the nature of the arrangement of molecules in cells;
  - e) determine the intensity of biochemical processes in cells
2. Basophilia of the cytoplasm is characteristic of the following kind of cells:
  - a) shrinking cells;
  - b) **cell which contain a lot of RNA in the cytoplasm;**
  - c) cell which contain Hgb;
  - d) cell which accumulate lipids;
3. In a histological specimen we can see neurons with large light-colored nuclei and nucleoli. Evaluate the activity of protein synthesis in these cells.
  - a) active synthesis of lipids is going on
  - b) active cell division is going on
  - c) active synthesis of myelin is going on
  - d) **active synthesis of protein is going on**
4. In the construction of the body of the embryo in the second week of development will participate

- a) the roof of the yolk sac and the roof of the amniotic sac
- b) the bottom of the yolk sac and the roof of the amniotic sac
- c) **the bottom of the amniotic sac and the roof of the yolk sac**
- d) the bottom of the amniotic sac and the bottom of the yolk sac

5. The main difference between stratified epithelium and simple epithelium is:

- a) the presence of the basement membrane
- b) borderline location;
- c) the contact of all the cells in the epithelial layer with the basement membrane;
- d) **the contact of only one layer of cells (the basal layer) with the basement membrane**
- e) considerable thickness of the epithelial layer;

6. In an epithelium all cells of a cylindrical form and all lie on a basal membrane. What is a type of an epithelium?

- a) pseudostratified columnar epithelium
- b) **the simple columnar epithelium;**
- c) stratified squamous transitional;
- d) stratified squamous cylindrical;

7. To determine the functional activity of blood cells in a tube containing leukocyte mass, a suspension of microorganisms was introduced. Specify cells in the cytoplasm of which phagocytosed microbes will be detected:

- a) lymphocytes and basophils;
- b) monocytes and lymphocytes;
- c) lymphocytes and neutrophils;
- d) **neutrophils and monocytes;**
- e) lymphocytes and eosinophils.

8. The patient was admitted to the clinic with a diagnosis: fracture of the clavicle. What cellular elements will take part in the regeneration of bone tissue?

- a) osteoblasts;
- b) osteocytes;
- c) fibroblasts;
- d) chondrocytes;
- e) **osteoclasts;**

9. Which of the following properties helps to differentiate between cardiac muscle and skeletal muscle?

- a) the presence of myofibrils;
- b) extensive vascularization;
- c) striation;
- d) **cellular composition;**
- e) acidophilic cytoplasm;

10. A nerve impulse is transmitted in only one direction across the synapse, which is conditioned by:

- a) the system of myofibrils and neurotubules
- b) the presence of mitochondria
- c) axoplasmic transport of substances
- d) **the presence of a receptor protein on the postsynaptic membrane**
- e) the presence of glial cells

## Статистика

**Удовлетворительно**  
Баллов: 41,46 из 60

**Медиана**  
Баллов: 45 из 60

**Диапазон**  
Баллов: от 0 до 50

Распределение баллов

