

Министерство образования и науки Российской Федерации
ФГАОУ ВО «Казанский (Приволжский) федеральный университет»

Институт Фундаментальной медицины и биологии

Высшая школа медицины

Кафедра Морфологии и общей патологии

Дисциплина: **Анатомия**

Специальности «Лечебное дело», «Стоматология», «Медицинская биохимия», «Медицинская биофизика», «Медицинская кибернетика»

QUESTIONS FOR THE ANATOMY EXAM

1. Neurocranium. The conditional line between the calvaria and the base. Anatomical formations of the calvaria and base of the skull. The joints of the bones of the skull, their characteristics, age-related changes in the skull, sex differences. Connections of the external and internal base of the cranium.
2. Viscerocranium. The orbit, temporal, infratemporal, and pterygopalatine fossa, walls, and communications with other formations of the skull. Connections of the bones of the skull, their characteristics, age-related changes in the skull, sex differences.
3. The temporomandibular joint, its anatomy, and function. Muscles, responsible for movements in the joint, their function. Blood supply to the temporomandibular joint and its muscles. Pathway for lymph drainage from the head.
4. Vertebral column. Connections between the vertebrae, their characteristics. Age-related changes in the vertebral column. Muscles, responsible for movements in the vertebral column, their classification, topography, function. Blood supply to the vertebral column and its muscles, arterial anastomoses, venous anastomoses.
5. The pelvis as a whole. The border between the greater and lesser pelvis. Sex differences of the pelvis. Connections of the pelvic bones, their characteristics. Foramina and canals in the wall of the pelvis, their contents. Pelvic diaphragm: muscles, fasciae. Ischio-rectal fossa. Blood supply to the pelvic walls, arterial anastomoses, venous anastomoses. Pathway for lymph drainage.
6. Muscles of the head, structural features, sources of development, functions. Fascia and spaces of the head. Blood supply to the head, arterial anastomoses, venous anastomoses. Pathway for lymph drainage.
7. Muscles of the neck, sources of development, functions, blood supply. Neck topography: regions, triangles, fasciae, and spaces. Blood supply to the neck, arterial anastomoses, venous anastomoses. Pathway for lymph drainage.
8. Thorax as a whole, connections of the bones. Main and accessory respiratory muscles, sources of development, function. Thorax topography. Blood supply to the walls and muscles of the thorax, arterial anastomoses, venous anastomoses. Pathway for lymph drainage.
9. Muscles of the abdomen, sources of development, functions. Topography of the abdomen: regions, white line of the abdomen, rectus sheath, inguinal canal. Fasciae of the abdomen. Blood supply to the walls of the abdominal cavity, arterial anastomoses, venous anastomoses. Pathway for lymph drainage.

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10. Connections of the bones of the shoulder girdle. Muscles, responsible for movements in the shoulder girdle, sources of development, topography, function, blood supply. Shoulder joint, anatomy, and characteristics of the joint. Muscles, responsible for movements in the shoulder joint, sources of their development, functions, shoulder fasciae. Features of the blood supply to the shoulder joint. Pathway for lymph drainage.
11. Elbow joint, proximal and distal radioulnar joints: anatomy, characteristics. Muscles, responsible for movements in these joints, functions, blood supply. Immobile connections of the forearm. Fascia and topography of the forearm. Peculiarities of the blood supply to the elbow joint. Pathway for lymph drainage.
12. Wrist joint, anatomy and characteristics of the joint. Muscles, responsible for movements in the wrist joint, functions, blood supply. Carpal tunnel, its content. Peculiarities of the blood supply to the wrist joint.
13. Hand, connections of bones. Muscles, responsible for movements in the joints of the hand, functions, blood supply. Features of the blood supply to the hand, arterial anastomoses, venous anastomoses.
14. Hip joint, anatomy and characteristics of the joint. Muscles, responsible for movements in the hip joint, functions, blood supply. Fascia and topography of thigh: femoral triangle (borders, floor, muscular and vascular lacunae), femoral canal. Features of the blood supply to the hip joint, arterial anastomoses, venous anastomoses. Pathway for lymph drainage.
15. Knee joint, anatomy and characteristics of the joint. Muscles, responsible for movements in the knee joint, functions, blood supply. Adductor canal. Popliteal fossa. peculiarities of blood supply to the knee joint, arterial anastomoses, venous anastomoses. Pathway for lymph drainage.
16. Shin, characteristic of the joints of the shin bones. Ankle joint, anatomy, characteristics, blood supply. Muscles, responsible for movements in the ankle joint, functions, blood supply. Fascia and topography of the shin.
17. Foot, joints of the bones of the foot. Muscles, responsible for movements of the foot, their functions, blood supply. Arches of the foot and their significance. Features of the foot blood supply, arterial anastomoses, venous anastomoses. Pathway for lymph drainage.
18. Oral cavity, its divisions, sources of development. Bony framework of the oral cavity. Teeth, types of teeth (formula), function, structure, blood supply. Tongue, lesser and greater salivary glands: structure, functions, sources of development, topography, blood supply. Pathway for lymph drainage.

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19. Soft palate, pharynx: topography, anatomy, function, sources of development, blood supply. Lymphoepithelial ring of Pirogov-Valdeyer. Pathway for lymph drainage.
20. Oesophagus, stomach: sources of development, anatomy, topography, functions. Blood supply. Arterial anastomoses, venous anastomoses. Pathway for lymph drainage.
21. Liver, gallbladder, duodenum, pancreas: functions, topography, boundaries, anatomy, sources of development. System of intra- and extrahepatic bile ducts. Blood supply. Pathway for lymph drainage.
22. The mesenteric part of the small intestine, large intestine: divisions, anatomy peculiarities, topography, functions. Sources of development. Blood supply, arterial anastomoses, venous anastomoses. Pathway for lymph drainage.
23. Peritoneum: location, source of development, structure, derivatives, functions. Retroperitoneal, preperitoneal and subperitoneal spaces, their contents. Division into floors. Contents of each floor, space, sacs, recesses.
24. Nose: functions, anatomy, source of development. The bony framework of the nose, the structure of the walls, connections and nasal passages, paranasal sinuses. Blood supply to the external nose and nasal cavity, arterial anastomoses, venous anastomoses. Pathway for lymph drainage.
25. Larynx, trachea, bronchi: functions, source of development, topography, anatomy, blood supply. Bronchial tree: consequence of bronchi and bronchioles, changes of the anatomy of their wall. Blood supply. Pathway for lymph drainage.
26. Lung, pleura: function, anatomy, topography, boundaries. Blood supply. Mediastinum: divisions, borders, topography of the mediastinal organs. Connection of the mediastinal divisions with the spaces of the neck.
27. Kidney, ureter, urinary bladder: function, sources of development, topography, anatomy. Fixation apparatus of the kidney. Blood supply. Pathway for lymph drainage.
28. Testis, scrotum, penis, male urethra, accessory male genital glands: function, anatomy, topography, sources of development, features of blood supply. Lymph outflow pathway. The vas deferens. Spermatic cord, anatomy, topography. Peculiarities of the male perineum anatomy.
29. Uterus, fallopian tube, ovary: functions, topography, anatomy peculiarities, sources of development. Blood supply. Pathway for lymph drainage.

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30. Vagina, external female genital organs, female urethra: anatomy, topography, function. peculiarities of the blood supply. Pathway for lymph drainage. Peculiarities of the female perineum anatomy.

31. General characteristics of the endocrine system, sources of development of endocrine glands, biological role. Thyroid gland, parathyroid glands, adrenal glands: topography, peculiarities of anatomy and blood supply.

32. Heart: development, anatomy, topography, function. Valves and fibrous skeleton of the heart. Conductive system of the heart. Blood supply to the heart. Peculiarities of the anatomy of the heart and blood supply to the human fetus, changes that occur after birth.