

Exam Topics/Subtopics

In Human Anatomy

for International Faculty of Medicine and Stomatology

students

Topics for each semester:

Semester I – N1 – N186

Semester II – N 187- N 389

- 1) Anatomical Position
- 2) Subject and goals of Anatomy
- 3) Saggital plane – location, function
- 4) Frontal plane – location, function
- 5) Horizontal plane – location, function
- 6) Anatomical axes and their directions
- 7) General anatomical terminology
- 8) Axial skeleton and its parts
- 9) Appendicular skeleton and its parts
- 10) Vertebral column- regions and amounts of vertebrae in each region
- 11) Parts of the typical vertebra
- 12) Cervical vertebrae and their differences from the typical vertebra
- 13) Anatomy of C1 and C2
- 14) Anatomy of the sacral bone
- 15) Lumbar vertebrae – individual characteristics
- 16) Vertebral canal – formation, contents
- 17) Thoracic skeleton and its parts
- 18) Sternum – parts, connections
- 19) General anatomy of the rib
- 20) True ribs and their connections
- 21) False ribs and their connections
- 22) Fluctuant ribs and their connections

- 23) Bones of the upper limb – general division
- 24) Anatomy of the humerus
- 25) Anatomy of the radius
- 26) Anatomy of the ulna
- 27) Hand skeleton
- 28) Bones of the lower limb – general division
- 29) Parts of the hip bone
- 30) Anatomy of the femur
- 31) Anatomy of the tibia
- 32) Anatomy of the fibula
- 33) Foot skeleton
- 34) General division of the skull – neurocranium , viscerocranium
- 35) Processes of the maxilla and their anatomical structures
- 36) Body of maxilla and its surfaces
- 37) Maxillary sinus and its connection to the nasal cavity
- 38) Body of the mandible and its structures
- 39) Mandibular rami and processes
- 40) Mandibular angle and its tuberosities
- 41) Palatine bone – perpendicular and horizontal planes, pyramidal process
- 42) Nasal bone, vomer, inferior nasal concha
- 43) Zygomatic bone – general anatomy
- 44) Zygomatic bone – surfaces and their foramina
- 45) Frontal bone – general anatomical parts
- 46) General anatomy of the sphenoid bone
- 47) Foramina on the greater wing – rotundum, ovale, spinosum
- 48) Superior orbital fissure – location, function
- 49) General anatomy of the occipital bone
- 50) Occipital squama – surfaces, margins
- 51) General anatomy of the temporal bone
- 52) Anterior surface of the petrous part and its anatomical structures
- 53) Posterior surface of the petrous part and its anatomical structures
- 54) Inferior surface of the petrous part and its anatomical structures
- 55) Styloid and mastoid processes and stylomastoid foramen
- 56) Ethmoid bone and its anatomical parts
- 57) Parietal bone – surfaces, margins, angles

- 58) Infratemporal and sphenopalatine fossae – borders, contents, connections
- 59) Orbit – walls, connections
- 60) Nasal cavity – walls, meatuses, connections
- 61) Anterior cranial fossa – boundaries, connections
- 62) Foramen lacerum – location, function
- 63) Middle cranial fossa – boundaries, connections
- 64) Jugular foramen – location, function
- 65) Posterior cranial fossa – boundaries, connections
- 66) General classification of connections
- 67) Uni, bi and multiaxial joints
- 68) Essential elements of the synovial joint
- 69) Additional elements of the synovial joint
- 70) Intervertebral disc
- 71) Long vertebral ligaments
- 72) Short vertebral ligament
- 73) Joints of the vertebral column
- 74) Connections of the thorax
- 75) Cranial sutures and ligaments
- 76) Anatomy of the temporomandibular joint
- 77) Connections of the clavicle – sternoclavicular and acromioclavicular joints
- 78) Shoulder joint – anatomical type, additional element, ligaments
- 79) Elbow joint – parts, ligaments
- 80) Radiocarpal joint – formation, anatomical type, ligaments
- 81) Anatomy of the sacroiliac joint
- 82) Hip joint – formation, anatomical type, additional elements, ligaments
- 83) Anatomy of the knee joint
- 84) Talocrural joint – formation, anatomical type, ligaments
- 85) Anatomical classification of muscles
- 86) Parts of the skeletal muscle - head, venter, tail
- 87) Head muscles – neurocranial and facial muscles
- 88) Masseter m. – Origin and insertion sites, functions
- 89) Temporal m. – Origin and insertion sites, functions
- 90) Medial pterygoid m. – Origin and insertion sites, functions
- 91) Lateral pterygoid m. – Origin and insertion sites, functions
- 92) Muscles of the facial expression

- 93) Superficial neck muscles
- 94) Suprahyoid muscles
- 95) Infrahyoid muscles
- 96) Superficial back muscles
- 97) Anterior abdominal muscles
- 98) Lateral abdominal muscles
- 99) Posterior abdominal muscles
- 100) Classification of the thoracic muscles
- 101) Diaphragm- parts, foramina and their locations
- 102) General classification of the perineal muscles
- 103) General classification of the upper limb muscles
- 104) General division of the arm muscles – flexors, extensors
- 105) General division of the forearm muscles – anterior and posterior groups
- 106) General classification of the lower limb muscles
- 107) Pelvic muscles
- 108) Muscles of the thigh – anterior, medial and lateral groups
- 109) Muscles of the inferior leg – anterior, lateral and posterior groups
- 110) General description of the digestive system
- 111) General structure of the GI tract's wall
- 112) Foregut derivatives
- 113) Midgut derivatives
- 114) Hindgut derivatives
- 115) Oral fissure – boundaries, location
- 116) Parts of the upper lip
- 117) Oral vestibule – boundaries, location, function
- 118) Cheeks – general structure, zones, functions
- 119) Gums – structure, parts, location
- 120) Walls of the proper oral cavity
- 121) Hard palate – bony composition, mucosa
- 122) Muscles of the soft palate
- 123) Tongue – parts, surfaces, margins
- 124) Tongue – grooves, foramen cecum
- 125) Taste buds on the tongue
- 126) Intrinsic lingual muscles
- 127) Extrinsic lingual muscles

- 128) Tooth – general anatomy, organ of the tooth
- 129) Surfaces of the crown of tooth
- 130) Groups of teeth, their individual characteristics
- 131) Lacteal and permanent teets
- 132) Incisors – amount, general anatomy
- 133) Canines – amount, general anatomy
- 134) Premolares – amount, general anatomy
- 135) Molaes– amount, general anatomy
- 136) Root and tubercles sign
- 137) Amount of roots for each group of teeth
- 138) Anatomy of the pharynx – parts, openings, muscles
- 139) Esophagus – parts, constrictions, wall
- 140) Stomach – parts, ligaments, wall
- 141) Duodenum – parts, wall
- 142) Jejunum and ileum
- 143) Large intestine – parts, wall of the colon
- 144) Anatomy of the rectum
- 145) Parotid gland – location, parts
- 146) Relations of the parotid gland
- 147) Parotid duct and its opening
- 148) Submandibular gland – location, relations, duct and its opening site
- 149) Sublingual gland – location, relations, main and accessory ducts and their opening site
- 150) Liver – surfaces, lobes, ligaments
- 151) Anatomy of the gallbladder and billiary tree
- 152) Pancreas – parts, ducts
- 153) General anatomy of the peritoneum, visceral and parietal layers of peritoneum, peritoneal cavity
- 154) Intraperitoneal organs
- 155) Mesoperitoneal organs
- 156) Retroperitoneal organs
- 157) Mesentery and omentum
- 158) Cartilages of the external nose
- 159) Walls of the nasal cavity
- 160) Superior nasal meatus and its openings

- 161) Middle nasal meatus and its openings
- 162) Inferior nasal meatus and its openings
- 163) Maxillary sinus – walls, hiatus
- 164) Sphenoid sinus – walls, connection to the nasal cavity
- 165) Ethmoid cells – groups, their connection to the nasal cavity
- 166) Frontal sinus – walls, connection to the nasal cavity
- 167) Paired laryngeal cartilages
- 168) Single laryngeal cartilages
- 169) Laryngeal dilator muscles
- 170) Laryngeal constrictor muscles
- 171) Vocal muscles
- 172) Laryngeal cavity
- 173) Trachea – parts, wall, bifurcation site
- 174) Differences between right and left main bronchi
- 175) Elements of the bronchial tree
- 176) Lungs – surfaces, margins, pulmonary hilum, lobes and segments
- 177) Pleura – layers, pleural cavity
- 178) General division of the mediastinum
- 179) External anatomy of the kidney – surfaces, poles, margins
- 180) Renal hilum and its structures
- 181) Renal parenchyma – cortex, medulla
- 182) Calices and renal pelvis
- 183) Renal blood flow – renal artery and its branches
- 184) Nephron and its parts
- 185) Ureter – parts, constrictions
- 186) Urinary bladder – parts, wall
- 187) External anatomy of the testis – surfaces, poles, margins
- 188) Tubular system of the testis
- 189) Vas deferens and its connection to the excretory duct
- 190) Scrotum and its 7 layers
- 191) Prostate gland – location, parts, parenchyma
- 192) Male urethra - parts, dilations, sphincters
- 193) Cavernous and spongy bodies of the penis
- 194) External anatomy of the ovary – surfaces, poles, margins
- 195) Ovarian parenchyma – medulla, cortex

- 196) Fixating apparatus of the ovary
- 197) Uterus – parts, surfaces, margins
- 198) Wall of the uterus
- 199) Ligaments of the uterus
- 200) Fallopian tube – parts, wall
- 201) Vagina – wall, fornix
- 202) External female genitalia – labia majora, labia minora, mammary gland and clitoris
- 203) General characteristics of the endocrine system
- 204) Endodermal glands
- 205) Mesodermal glands
- 206) Ectodermal glands
- 207) Central and peripheral endocrine organs
- 208) Pituitary dependent organs
- 209) Pituitary independent organs
- 210) Hypothalamus – location, nuclei, functions
- 211) Pituitary gland – parts, location
- 212) Epiphysis – location, function
- 213) Thyroid gland – parts, hormones
- 214) Parathyroid glands – location, function
- 215) Adrenal medulla and its hormones
- 216) Adrenal cortex – zones, hormones
- 217) Gonads and their endocrine functions
- 218) Hormone producing cells in some nonendocrine organs
- 219) Hormone producing cells in some nonendocrine organs
- 220) Fibrous layer of the eyeball – parts, functions
- 221) Vasculous layer of the eyeball – parts, functions
- 222) Iris – muscles, pupil, iridocorneal angle
- 223) Retinal layer of the eyeball – parts, functions
- 224) Eyeball chambers, aqueous humor
- 225) Extraocular muscles
- 226) Lacrimal apparatus
- 227) General division of the ear – external, middle and internal parts
- 228) Auditory ossicles
- 229) Tympanic cavity and its walls

- 230) Bony semicircular canals
- 231) Cochlea and its anatomy
- 232) Vestibule and its anatomy
- 233) Membranous labyrinth and its parts
- 234) Layers of the skin
- 235) Heart – location, external anatomy
- 236) Posterior wall of the right atrium
- 237) Anterior wall of the right atrium
- 238) Interatrial septum and its anatomy
- 239) Anatomy of the tricuspid valve
- 240) Walls of the right ventricle
- 241) Walls of the left atrium
- 242) Walls of the left ventricle
- 243) Anatomy of the mitral valve
- 244) Anatomy of the pulmonary valve
- 245) Anatomy of the aortic valve
- 246) Endocardium – location, function
- 247) Atrial myocardium and its layers
- 248) Ventricular myocardium and its layers
- 249) Anatomy of the pericardium
- 250) Heart conducting system
- 251) Right coronary artery and its branches
- 252) Left coronary artery and its branches
- 253) Pulmonary trunk and its bifurcation site, pulmonary arteries and veins
- 254) Aorta and its parts
- 255) Aortic arch – origin and termination levels, branches of the aortic arch
- 256) Common carotid artery – origin, bifurcation site
- 257) General branches of the external carotid artery
- 258) Superior thyroid artery and its branches
- 259) Lingual artery and its branches
- 260) Facial artery and its branches
- 261) Posterior auricular artery and its branches
- 262) Occipital artery and its branches
- 263) Ascending pharyngeal artery and its branches
- 264) Superficial temporal artery and its branches

- 265) First part of the maxillary artery and its branches
- 266) Second part of the maxillary artery and its branches
- 267) Third part of the maxillary artery and its branches
- 268) Ophthalmic artery and its branches
- 269) Circle of Willis
- 270) Parts of the subclavian artery
- 271) Thyrocervical trunk and its branches
- 272) Costocervical trunk and its branches
- 273) Axillary artery and its branches
- 274) Brachial artery and its branches
- 275) Radial artery and its branches
- 276) Ulnar artery and its branches
- 277) Deep palmar arch – formation, branches
- 278) Superficial palmar arch – formation, branches
- 279) Visceral branches of the thoracic aorta
- 280) Parietal branches of the thoracic aorta
- 281) Parietal branches of the abdominal aorta
- 282) Paired visceral branches of the abdominal aorta
- 283) Celiac trunk – origin level, branches
- 284) Superior mesenteric artery – origin level, branches
- 285) Inferior mesenteric artery – origin level, branches
- 286) External iliac artery and its branches
- 287) Parietal branches of the internal iliac artery
- 288) Visceral branches of the internal iliac artery
- 289) Femoral artery and its branches
- 290) Popliteal artery and its branches
- 291) Anterior tibial artery and its branches
- 292) Posterior tibial artery and its branches
- 293) Deep and superficial veins of the lower limb
- 294) Pelvic veins
- 295) Inferior vena cava – formation, parietal and visceral tributaries
- 296) Portal vein and its tributaries
- 297) Superior portocaval anastomosis
- 298) Inferior portocaval anastomosis
- 299) Cavacaval anastomoses

- 300) Deep and superficial veins of the upper limb
- 301) Brachiocephalic vein and its tributaries
- 302) Superior vena cava – formation, tributaries
- 303) Azygos vein – formation, tributaries
- 304) Hemiazygos vein – formation, tributaries
- 305) Internal jugular vein – formation, tributaries
- 306) External jugular vein – formation, tributaries
- 307) Ophthalmic veins
- 308) Facial vein – formation, tributaries
- 309) Retromandibular vein – formation, tributaries
- 310) Maxillary and lingual veins
- 311) Pterygoid venous plexus
- 312) Prenatal circulation
- 313) Postnatal circulation
- 314) Lymphatic trunks and ducts
- 315) Immune system organs – bone marrow, lymph node, thymus, tonsils
- 316) Anatomy of the spleen
- 317) Development of the nervous system – main stages
- 318) Spinal cord – location, borders
- 319) External anatomy of the spinal cord – grooves, fissure, funiculi
- 320) Gray matter – anterior, posterior and lateral horns
- 321) Meninges and intermeningeal spaces
- 322) White matter of the spinal cord
- 323) General branches of the spinal nerve
- 324) Borders between the spinal cord and brain
- 325) Three primary vesicles of the brain
- 326) Five secondary vesicles of the brain
- 327) External anatomy of the medulla oblongata
- 328) Gray substance of the medulla, medullary nuclei
- 329) White substance of the medulla
- 330) Brainstem and its parts
- 331) External anatomy of the pons
- 332) Gray and white matter of the pons, pontine nuclei
- 333) Cerebellum – parts, pedicles, nuclei
- 334) IV ventricle – floor, roof, connections

- 335) Midbrain – parts, connections
- 336) Internal anatomy of the midbrain
- 337) Diencephalon – parts, functions
- 338) Ventricles of the brain and their connections
- 339) Cerebral hemispheres – surfaces, lobes, grooves, poles
- 340) Sulci and gyri of the frontal lobe
- 341) Sulci and gyri of the temporal lobe
- 342) Sulci and gyri of the parietal lobe
- 343) Sulci and gyri of the occipital lobe
- 344) Sulci and gyri of the insular lobe
- 345) Cerebral cortex and its layers, main cortical areas
- 346) Basal ganglia
- 347) White substance of hemispheres
- 348) Meninges, dural venous sinuses
- 349) Connections between the right and left hemispheres
- 350) Cervical plexus – formation, general branches
- 351) Short branches of the brachial plexus
- 352) Long branches of the brachial plexus
- 353) Short branches of the lumbar plexus
- 354) Long branches of the lumbar plexus
- 355) Short branches of the sacral plexus
- 356) Long branches of the sacral plexus
- 357) Intercostal nerves
- 358) General anatomy of cranial nerves – names, foramen in the skull for each
nerve
- 359) Olfactory nerve – pathway neurons
- 360) Optic nerve – pathway, neurons, optic chiasm
- 361) Oculomotor nerve and its branches
- 362) Trochlear nerve
- 363) Trigeminal nerve – nuclei, ganglion
- 364) Maxillary nerve and its branches
- 365) Maxillary nerve and autonomic ganglia
- 366) Mandibular nerve and its branches
- 367) Mandibular nerve and autonomic ganglia
- 368) Ophthalmic nerve and its branches

- 369) Abducence nerve
- 370) Nuclei of the facial nerve
- 371) Branches of the facial nerve inside the facial nerve canal
- 372) Facial nerve and its motor branches
- 373) Vestibulocochlear nerve
- 374) Glossopharyngeal nerve and its branches
- 375) Vagus nerve – segments, nuclei, branches
- 376) Accessory nerve
- 377) Hypoglossal nerve
- 378) Effects of sympathetic and parasympathetic nervous systems
- 379) Differences between the autonomic and somatic nervous systems
- 380) Autonomic centers in the CNS
- 381) Sympathetic trunk – formation, regions
- 382) Cranial parasympathetic nuclei and nerves
- 383) Sacral parasympathetic segments and nerves
- 384) Celiac ganglion and its branches
- 385) Superior mesenteric ganglion and its branches
- 386) Inferior mesenteric ganglion and its branches
- 387) Superior and inferior hypogastric plexuses
- 388) Afferent tracts
- 389) Efferent tracts

