

ANATOMY / PHYSIOLOGY BASICS COURSE POST-TEST

UNIT 1: LEVELS OF ORGANIZATION

1. The word "anatomy" comes from a Greek root word that means:
A structure B to cut apart C body D life
2. Human physiology is the study of the ——— of body structures and the ways in how they work together to support life functions.
A systemic anatomy B complexity C chemistry and physics D uniqueness
3. ——— is the process by which larger more complex substances are broken down into smaller, simpler molecules.
A Anabolism B Metabolism C Calcinosi s D Catabolism
4. Negative feedback systems have three basic components, including a sensor, control center and a/an:
A site monitor B effector C regulator D pressure point
5. The ——— is the serous membrane that surrounds the several organs in the abdominopelvic cavity.
A pericardium B peritoneum C pleura D hypochondriac region
6. A PET scan is a medical imaging technique in which radiopharmaceuticals are traced to reveal ——— and physiological functions in tissues.
A metabolic B hematologic C hormonal D reproductive
7. An electron has about ——— the mass of a proton or neutron.
A 1/500th B 1/1000th C 1/2000th D 1/3000th
8. ——— is an essential component of life because it is able to break the ionic bonds in salts to free the ions.
A Carbon B Water C Hydrogen D Oxygen
9. An enzyme is a catalyst composed of protein or ——— acid.
A sulfuric B perchloric C ribonucleic D hydrochloric
10. Carbohydrates are referred to as:
A galactose B saccharides C triglycerides D fructose
11. Prostaglandins are derived from:
A proteins B unsaturated fatty acids C cholesterol D steroids
12. Synthesis reaction is a type of anabolic reaction where two or more atoms or molecules bond, resulting in formation of a larger molecule.
A True B False
13. ——— is the movement of particles from an area of high concentration to an area of lower concentration.
A Passive transport B Diffusion C Active transport D Facilitated diffusion
14. ———, the jelly-like substance within the cell, provides the fluid medium necessary for biochemical reactions.
A Cytoplasm B Lumen C Cytosol D Extracellular fluid
15. Within the nucleus are threads of ——— composed of DNA and associated proteins.
A chromosomes B nucleosomes C histones D chromatin
16. Translation is the process of synthesizing a chain of amino acids called a(n):
A RNA strand B codon C anticodon D polypeptide

33. **By the sixth or seventh week of embryonic life, the actual process of bone development, ——— begins.**
 A gastrulation B neurulation C ossification D placentation
34. **While bones are increasing in length, they are also increasing in diameter, a process called:**
 A longitudinal growth B appositional growth C modeling D remodeling
35. **This type of fracture, called ———, occurs at an angle that is not 90 degrees.**
 A oblique B transverse C greenstick D comminuted
36. **A ——— bone is a small, round bone embedded in a tendon, that protects the tendon from compressive forces.**
 A compact B long C short D sesamoid
37. **There are ——— bones in the appendicular skeleton of an adult.**
 A 118 B 126 C 142 D 206
38. **The ——— connects to the middle and inner ear cavities of the temporal bone.**
 A styloid process B carotid canal C internal acoustic meatus D external acoustic meatus
39. **The coronal suture runs ——— across the skull.**
 A from side to side B downward C upward D high
40. **The ——— sinus is located just above the eyebrows, within the frontal bone.**
 A maxillary B sphenoid C frontal D paranasal
41. **Each paired ——— process projects laterally and arises from the junction point between the pedicle and lamina.**
 A spinous B transverse C superior articular D inferior articular
42. **A costal groove is a shallow groove along the inferior margin of a rib that provides passage for blood vessels and a nerve.**
 A True B False
43. **During the third week of embryonic development, a rod-like structure called the ——— develops dorsally along the length of the embryo.**
 A fontanelle B sclerotome C somite D notochord
44. **The ——— lies on the posterior aspect of the shoulder.**
 A clavicle B scapula C pectoral girdle D axial skeleton
45. **The ——— has two phalanges, a proximal phalanx, and a distal phalanx bone.**
 A ulna B interphalangeal joint C pollex D radius
46. **The ——— of the radius is slightly curved and has a small ridge along its medial side.**
 A neck B shaft C head D ulnar notch
47. **The ——— is the kneecap and articulates with the distal femur.**
 A patella B tibia C fibula D tarsal bone
48. **The base of the fifth metatarsal has a large, lateral expansion that provides for muscle attachments.**
 A True B False
49. **The ——— is a posteroinferior portion of the hip bone.**
 A interphalangeal joint B humerus C ischium D lunate

50. An immobile or nearly immobile joint is called a:
- A synovial joint B synarthrosis C cartilaginous joint D fibrous joint
51. A cartilaginous joint where the bone are joined by fibrocartilage is called a:
- A symphysis B gomphosis C articular cartilage D periodontal ligament
52. Abduction and ——— motions occur within the coronal plane and involve medial-lateral motions of the limbs, fingers, toes, or thumb.
- A circumduction B pronation C adduction D supination
53. Located between the articulating surfaces of the femur and tibia are two articular discs, the medial meniscus and:
- A medial epicondyle B medial tibia C fibula D lateral meniscus
54. A type of fibrous joint in which the root of a tooth is anchored into its bony jaw socket by strong periodontal ligaments:
- A saddle joint B gomphosis C plane joint D acetabulum
55. ——— allows muscle tissue to pull on its attachment points and shorten with force.
- A Contractility B Elasticity C Extensibility D Excitability
56. The motor neurons that tell the skeletal muscle fibers to contract originate in the:
- A cerebellum B brainstem C spinal cord D spinal fluid
57. As long as ATP is available, it readily attaches to ———, the cross-bridge cycle can recur, and muscle contraction can continue.
- A tropomyosin B myosin C troponin D actin
58. The absence of the low-level contractions that lead to muscle tone is referred to as hypotonia.
- A True B False
59. Paraxial mesodermal cells adjacent to the neural tube form blocks of cells called:
- A myoblast B satellite cells C somites D pericyte
60. A muscle with the opposite action of the prime mover is called a/an:
- A synergist B antagonist C fixator D agonist
61. The extensor digitorum of the forearm is an example of a ——— muscle.
- A pennate B unipennate C bipennate D multipennate
62. The ——— is a circular muscle that moves the lips.
- A orbicularis oris B buccinator C orbicularis oculi D corrugator supercilii
63. In anatomical terminology, chewing is called:
- A comminution B rumination C deglutition D mastication
64. The ——— group forms the majority of the muscle mass of the back and is the primary extensor of the vertebral column.
- A iliocostalis B erector spinae C longissimus D spinalis capitis
65. The anterior muscles include the subclavius, pectoralis minor, and:
- A serratus minor B trapezius C rhomboid major D rhomboid minor
66. The flexor retinaculum extends over the ——— of the hand.
- A dorsal surface B palmar surface C distal phalanges D distal phalanx

67. The four deep muscles in the posterior compartment of the leg are popliteus, flexor digitorum longus, flexor hallucis longus, and:
 A fibularis longus B extensor digitorum brevis C tibialis posterior D calcaneus
68. The ——— is the circle of tendons around the shoulder joint.
 A rotator cuff B sartorius C sternohyoid D palmaris longus

UNIT 3: REGULATION, INTEGRATION, AND CONTROL

69. A localized collection of neuron cell bodies in the Central Nervous System (CNS) is referred to as a(n):
 A ganglion B nucleus C axon D dendrite
70. Neurons are usually described as having ——— axon(s).
 A one B two C three D four
71. Glial cells, or neuroglia or simply glia, are a type of cell found in nervous tissue.
 A True B False
72. A ——— opens because a signaling molecule, a ligand, binds to the extracellular region of the channel.
 A mechanically gated channel B ligand-gated channel C voltage-gated channel D leakage channel
73. The action potential is initiated at the beginning of the axon, at what is called the ——— segment.
 A orsus B prime C proto D initial
74. There are ——— types of connections between electrically active cells, chemical synapses and electrical synapses.
 A two B three C four D five
75. The ——— is the outermost layer of gray matter in the brain, where conscious perception takes place.
 A cerebral cortex B cerebellum C cranium D thalamus
76. The ——— develops into the integumentary system and the nervous system.
 A exoderm B mesoderm C endoderm D ectoderm
77. The ——— is a vesicle which can be called the midbrain.
 A rhombencephalon B mesencephalon C prosencephalon D hindbrain
78. Broca's area is responsible for the production of language, or controlling movements responsible for speech.
 A True B False
79. Activity in the ——— is related to orienting the eyes to a sound or touch stimulus.
 A tectum B tegmentum C inferior colliculus D superior colliculus
80. The internal carotid artery enters the cranium through the ——— in the temporal bone.
 A circle of Willis B carotid canal C foramen magnum D occipital sinus
81. Cerebrospinal fluid is produced within the ventricles by a type of specialized membrane called a:
 A meningeal dura mater B telencephalon C choroid plexus D cerebral aqueduct
82. The ——— constitute a row of ganglia that receive central input from the lateral horn of the thoracic and upper lumbar spinal cord.
 A sympathetic chain ganglia B paravertebral ganglia C prevertebral ganglia D terminal ganglia

83. Axons from different spinal nerves will come together into a:
- A nerve plexus B ventral nerve root C dorsal nerve root D systemic nerve
84. The amygdala is nucleus deep in the temporal lobe of the cerebrum and is related to ——— and emotional behavior.
- A motor functions B visual sensation C memory D smell
85. An exteroceptor is a receptor that is located near a stimulus in the external environment, such as somatosensory receptors.
- A True B False
86. At the end of the auditory canal is the ———, which vibrates after it is struck with sound waves.
- A auricle B malleus C incus D tympanic membrane
87. The inner surface of each eyelid is a thin membrane known as the:
- A lacrimal duct B palpebral conjunctiva C cornea D superior oblique
88. The dorsal column system and the ——— are two major pathways that bring sensory information to the brain.
- A spinothalamic tract B nucleus gracilis C medial lemniscus D nucleus cuneatus
89. Sound localization is achieved by the brain calculating the interaural ——— difference and the interaural intensity difference.
- A frequency B speed C level D time
90. Because of the overlapping field of view between two eyes, the brain can estimate the distance of stimuli based on binocular depth cues.
- A True B False
91. The ——— are responsible for moving the eyes in response to visual stimuli.
- A cone photoreceptors B frontal eye fields C corticospinal tract D medulla
92. The ——— cortex is located in the precentral gyrus of the frontal lobe.
- A prefrontal B primary motor C premotor D supplementary motor
93. There are typically ——— ganglia in the chain on either side of the spinal column.
- A 18 B 20 C 23 D 26
94. The preganglionic parasympathetic fibers within cranial nerve III terminate in the ——— ganglion:
- A otic B intramural C terminal D ciliary
95. A baroreceptor in the walls of the aorta and carotid sinuses senses organs stretching when blood volume or pressure increases.
- A True B False
96. The amygdala is a group of nuclei in the ——— region of the temporal lobe.
- A distal B medial C proximal D superior
97. ——— is an antagonist to the adenosine receptor.
- A Pilocarpine B Clonidine C Cocaine D Caffeine
98. The limbic lobe is a region of structures arranged around the edges of the ——— that are involved in memory and emotion.
- A cerebrum B cerebellum C brainstem D spinal cord
99. The cranial nerve exam tests the function of the 12 cranial nerves and the central and peripheral structures associated with them.
- A True B False

100. The inability to form new memories is a condition called:
 A retrograde amnesia B anterograde amnesia C episodic memory D procedural memory
101. The ——— has autonomic functions in the thoracic and superior abdominal cavities.
 A abducens nerve B vestibulocochlear nerve C olfactory D vagus nerve
102. The opening of the oral cavity into the pharynx is known as the:
 A uvula B hard plate C fauces D salivary duct
103. Somatic senses are incorporated mostly into the skin, muscles, or:
 A nervous tissue B cartilage C joints D tendons
104. ——— is an excess contraction in resistance to stretch.
 A Spasticity B Fibrillation C Clasp-knife response D Fasciculation
105. ——— signaling requires more time than neural signaling to prompt a response in target cells.
 A Paracrine B Endocrine C Autocrine D Synaptic
106. Hormones derived from lipids include:
 A proteins B peptides C steroids D amines
107. The ——— is a structure of the diencephalon of the brain located anterior and inferior to the thalamus.
 A hypothalamus B infundibulum C cerebellum D frontal lobe
108. The ——— hormone stimulates the adrenal cortex to secrete corticosteroid hormones such as cortisol.
 A adrenocorticotrophic B thyroid-stimulating C Luteinizing D growth
109. The parathyroid hormone (PTH) is the major hormone involved in the regulation of blood calcium levels.
 A True B False
110. The ——— produces the hormone insulin and makes up approximately 75 percent of each pancreatic islet.
 A alpha cell B beta cell C delta cell D PP cell
111. ——— is a disorder in adults caused when abnormally high levels of GH trigger growth of bones in the face, hands, and feet.
 A Gigantism B Goiter C Acromegaly D Hyperparathyroidism

UNIT 4: FLUIDS AND TRANSPORT

112. Plasma is composed primarily of water. In fact, it is about ——— percent water.
 A 68 B 92 C 75 D 82
113. In the lungs, hemoglobin picks up oxygen, which binds to the iron ions, forming:
 A oxyhemoglobin B deoxyhemoglobin C hypoxemia D carbaminohemoglobin
114. The ——— is a major component of the body's defenses against disease.
 A erythrocyte B leukocyte C bilirubin D reticulocyte
115. Platelets are key players in hemostasis, the process by which the body seals a ruptured blood vessel and prevents further loss of blood.
 A True B False
116. When a portion of a thrombus breaks free from the vessel wall and enters the circulation, it is referred to as a/an:
 A thrombosis B fibrinolysis C lymphoblast D embolus

117. ——— is the formation of a blood clot; part of the process of hemostasis.
- A Hemoblast B Coagulation C Diapedesis D Thrombocytosis
118. The great veins, the superior and inferior venae cavae, and the great arteries, are attached to the ——— surface of the heart.
- A posterior B anterior C inferior D superior
119. The right ventricle pumps deoxygenated blood into the ———, which leads toward the lungs.
- A inferior vena cava B left atrium C pulmonary trunk D mitral valve
120. The septum between the atria and the ventricles is known as the atrioventricular septum.
- A True B False
121. The walls of the ventricle are lined with ———, ridges of cardiac muscle covered by the endocardium.
- A purkinje fibers B trabeculae carneae C chordae tendineae D cardiac plexus
122. ——— supply blood to the myocardium and other components of the heart.
- A Coronary arteries B Marginal arteries C Atrial arteries D Pulmonary arteries
123. Normal cardiac rhythm is established by the sinoatrial node, a specialized clump of myocardial conducting cells.
- A True B False
124. There are five prominent points on the ECG: the P wave, the ———, and the T Wave.
- A O wave B QRS complex C V wave D XY complex
125. In this type of heart block, the ECG would reveal some P waves not followed by a QRS complex, while others would appear normal:
- A partial B complete C first-degree D second-degree
126. Individuals are cautioned to monitor their HR to ensure they stay within the target heart rate range between:
- A 120 and 160 bpm B 60 and 100 bpm C 110 and 130 D 130 and 150
127. ——— refers to the tension that the ventricles must develop to pump blood effectively against the resistance in the vascular system.
- A Preload B Afterload C Contractility D Venous return
128. The heart forms from ——— around 18 to 19 days after fertilization.
- A ectoderm B endoderm C mesoderm D cardiogenic cords
129. The ——— is composed of epithelial and connective tissue layers.
- A tunica media B tunica intima C tunica externa D arteriole
130. The tunica externa is a substantial sheath of connective tissue composed primarily of collagenous fibers.
- A True B False C D
131. If an artery or arteriole constricts to one-half of its original radius, the resistance to flow will increase ——— times.
- A 1.5 B 2 C 4 D 16
132. The net filtration pressure represents the interaction of the hydrostatic and osmotic pressures, driving fluid ——— the capillary.
- A out of B into C near D to reabsorb within
133. As little as 30 minutes of exercise over the course of each day has been shown to lower the rate of heart attack by nearly 50 percent.
- A True B False

134. ——— occurs when arterioles lose their normal muscular tone and dilate dramatically.
- A Cardiogenic shock B Vascular shock C Anaphylactic shock D Septic shock
135. The ——— provides blood to the muscles of the thoracic cavity and the vertebral column.
- A pericardial artery B esophageal artery C intercostal artery D superior phrenic artery
136. An ovarian artery is considerably ——— than a testicular artery.
- A longer B shorter C wider D narrower
137. Blood from the brain and the superficial facial vein flow into each:
- A internal jugular vein B azygos vein C superior vena cava D subclavian vein
138. Blood supply from the liver drains into each ——— and directly into the inferior vena cava.
- A phrenic vein B hepatic vein C renal vein D adrenal vein
139. The ——— is a temporary blood vessel that branches from the umbilical vein, allowing freshly oxygenated blood from the placenta.
- A ductus arteriosus B foramen ovale C fossa ovalis D ductus venosus
140. *Nervi Vasorum* are small nerve fibers found in arteries and veins that trigger contraction of the smooth muscle in their walls.
- A True B False
141. Humans have about ——— lymph nodes throughout the body.
- A 400-500 B 500-600 C 600-700 D 700-800
142. ——— are lymphoid nodules located along the inner surface of the pharynx and are key to developing immunity to oral pathogens.
- A Granzymes B Mast cells C Tonsils D Thymocytes
143. The primary barrier to the entrance of microorganisms into the body is the:
- A lysozyme in the oral cavity B acidity of the stomach C mucous layer of the GI tract D skin
144. ——— are T Cells that kill target cells by inducing apoptosis using the same mechanism as Natural Killer (NK) cells.
- A Cytotoxic T cells (Tc) B Regulatory T Cells (Treg) C Helper T cells (Th) D Memory T cells
145. This class of antibody is the one that crosses the placenta to protect the developing fetus from disease:
- A IgM B IgG C IgA D IgE
146. ——— occurs with diseases such as systemic lupus erythematosus, where soluble antigens accumulate in the blood to blood vessel linings.
- A Delayed hypersensitivity B Type III hypersensitivity C Type II hypersensitivity D Immediate Hypersensitivity
147. A natural killer cell (NK) is a cytotoxic lymphocyte of innate immune response.
- A True B False

UNIT 5: ENERGY, MAINTENANCE, AND ENVIRONMENTAL EXCHANGE

148. The ——— is the concave surface that connects the apex of the nose to the upper lip.
- A dorsum nasi B philtrum C bridge D ala
149. The ——— help(s) maintain equal air pressure throughout the alveoli and lung.
- A alveolar sac B alveolar duct C alveolar pores D alveolus

150. Intrapleural pressure remains approximately ——— Hg throughout the breathing cycle.
- A -1 mm B -2 mm C -3 mm D -4 mm
151. ——— describes the behavior of gases when they come into contact with a liquid, such as blood.
- A Dalton's law B Henry's law C Boyle's law D Wolff's law
152. The ——— is a phenomenon that arises from the relationship between pH and oxygen's affinity for hemoglobin.
- A chloride shift B Haldane effect C Root effect D Bohr effect
153. ——— is a process of adjustment that the respiratory system makes due to chronic exposure to high altitudes.
- A Inspiration B Acclimatization C Vital capacity D Inspiratory reserve volume
154. The pharynx propels food from the oral cavity to the ——— and lubricates food and passageways.
- A stomach B esophagus C small intestine D large intestine
155. Perhaps the most important ingredient in saliva from the perspective of digestion is:
- A glycoproteins B ions C salivary amylase D growth factors
156. The ——— is the point where the esophagus connects to the stomach and through which food passes into the stomach.
- A cardia B fundus C pylorus D ruga
157. The coiled tube of the small intestine is subdivided into three regions: the duodenum, jejunum, and ileum.
- A True B False
158. The right colic flexure (hepatic flexure) and becomes the:
- A sigmoid colon B transverse colon C ascending colon D left colic flexure
159. A hepatocyte is the liver's main cell type, accounting for around ——— percent of the liver's volume.
- A 30 B 80 C 50 D 60
160. The three lipases responsible for lipid digestion are lingual lipase, gastric lipase, and:
- A pancreatic lipase B pancreatic nuclease C ribonuclease D phosphatase
161. The ——— is a pointed tooth is used for tearing and shredding food.
- A cuspid B molar C dens D deciduous tooth
162. Of the four major macromolecular groups that are processed by digestion, ——— are considered the most common source of energy.
- A proteins B nucleic acids C lipids D carbohydrates
163. Cortisol, ———, and adrenaline/epinephrine are examples of catabolic hormones that help regulate metabolic processes.
- A insulin B glucagon C estrogen D testosterone
164. To start ———, citrate synthase combines acetyl CoA and oxaloacetate to form a six-carbon citrate molecule.
- A the Calvin cycle B glycolysis C the urea cycle D the Krebs cycle
165. When the food-gastric juice mixture enters the small intestine, the pancreas releases ——— to neutralize the HCl.
- A pepsin B elastase C sodium bicarbonate D chymotrypsin
166. ——— is the transfer of heat by two objects that are in direct contact with one another.
- A Convection B Conduction C Radiation D Evaporation

167. The amount of minerals in the body is small—only ——— percent of the total body mass.
- A 1 B 2 C 3 D 4
168. The kidneys must produce a minimum urine volume of about ——— mL/day to rid the body of wastes.
- A 250 B 350 C 500 D 600
169. The ——— is the entry and exit site for structures servicing the kidneys: vessels, nerves, lymphatics, and ureters.
- A calyces B renal hilum C medulla D renal papillae
170. The volume of filtrate formed by both kidneys per minute is termed the glomerular filtration rate (GFR).
- A True B False
171. A principal cell possesses channels for the recovery or loss of sodium and:
- A magnesium B sugar C potassium D insulin
172. Anuria is the absence of urine produced; production of ——— mL or less per day.
- A 50 B 40 C 30 D 20
173. Intracellular fluid (ICF) makes up about ——— of the total water in the human body.
- A 40% B 60% C 75% D 50%
174. The kidney excretes ——— milliosmoles of solutes per day.
- A 200-1000 B 500-1400 C 50-1500 D 100-1200
175. ——— is released if blood levels of potassium increase, if blood levels of sodium severely decrease, or if blood pressure decreases.
- A ADH B Aldosterone C Angiotensin D ANP
176. During the conversion of CO₂ into bicarbonate, hydrogen ions liberated in the reaction are buffered by:
- A phosphate B bicarbonate-carbonic acid C Protein D Hemoglobin
177. ——— means a person has lower-than-normal levels of sodium in the blood.
- A Hyponatremia B Hypocalcemia C Hyponatremia D Hypocapnia

UNIT 6: HUMAN DEVELOPMENT AND THE CONTINUITY OF LIFE

178. The testes are each approximately ——— cm in length and are housed within the scrotum.
- A 2 to 3 B 3 to 4 C 4 to 5 D 5 to 6
179. The prostate normally doubles in size during puberty. At approximately age ———, it gradually begins to enlarge again.
- A 25 B 30 C 40 D 50
180. Testosterone, an androgen, is a steroid hormone produced by:
- A Leydig cells B Theca cells C granulosa cells D Sertoli cells
181. The middle region of the uterine tube, called the ———, is where fertilization often occurs.
- A isthmus B infundibulum C corpus luteum D ampulla
182. The innermost layer of the uterus is called the:
- A perimetrium B myometrium C endometrium D fundus

183. Breast milk is produced by the ———, which are modified sweat glands.

- A lactiferous ducts B mammary glands C lactiferous sinus D areolar glands

184. The release of LH occurs primarily at night during sleep and precedes the physical changes of puberty by several years.

- A True B False

185. The ——— is a wide, distal portion of the uterine tube terminating in fimbriae.

- A myometrium B infundibulum C fundus D mons pubis

186. If sperm do not encounter an oocyte immediately, they can survive in the uterine tubes for another ——— days.

- A 2 B 3 C 2-4 D 3-5

187. Following fertilization, the zygote and its associated membranes, together are referred to as the:

- A morula B conceptus C blastocoel D trophoblast

188. The ——— connects to the conceptus via the umbilical cord, which carries deoxygenated blood and wastes from the fetus.

- A amnion B yolk sac C placenta D mesoderm

189. During weeks ——— of fetal development, the brain continues to expand, the body elongates, and ossification continues.

- A 9-12 B 16-20 C 21-28 D 29-31

190. The pituitary hormone prolactin is instrumental in the establishment and maintenance of breast milk supply.

- A True B False

191. ——— inheritance patterns are much more rare because neither heterozygotes nor homozygotes survive.

- A Recessive lethal B Dominant lethal C Incomplete dominance D Codominance

192. A(n) ——— is a tightly packed sphere of blastomeres that has reached the uterus but has not yet implanted itself.

- A embryo B morula C diploid D zygote

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(Page 2 of 2)

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