

قائمة الاسئلة

متحان نهاية الفصل الدراسي الأول ـ للعام الجامعي 1446هـ ـ كلية الطب والعلوم الصحية :: علم وظائف الأعضاء 1المستوى الأول .د. أحمد علاو

- 1) Dehydration is a process which charcterized by fatique and drowsiness which is developed due to a deficiency of fluids in the
 - 1) Brain.
 - 2) + Extracellular spaces.
 - 3) Intracellular spaces.
 - 4) Kidneys.
- 2) Homeostasis is charchterized by
 - 1) Equelibrium inside the cells.
 - 2) + Maintenance of normal physiology of the human body.
 - 3) Movement of body fluids into the cells.
 - 4) Movement of fluid from the cells.
- 3) Regarding the function of cell membrane:
 - 1) + It has a selective permeability function.
 - 2) It is a part of nucleous.
 - 3) It is a part of ribosomes biosynthesis.
 - 4) It is synsethized mitochondria.
- 4) The nervous cells that involved in the formation of blood brain barrier are called
 - 1) + Astrocyte.
 - 2) Microglia.
 - 3) Oligodendrocytes.
 - 4) Phagocytes.
- 5) The mitochondria contain
 - 1) + Mitochondrial DNA
 - 2) Nuclear DNA.
 - 3) The exytracellular fluid
 - 4) The intracellular fluid
- 6) A 30-years-old-man was admitted at the hospital with disorders of breathing, investigation found PACO2 49 mmHg and normal bicarbonates and pH was 7.32 so the clinical diagnosis is
 - 1) Acute hepatitis.
 - 2) Cardiac failure.
 - 3) Renal failure.
 - 4) + Respiratory acidosis.
- 7) When the action potential reaches the nerve terminal it will cause
 - 1) Depolarization of postsynaptic membrane potential.
 - 2) + Influx of calcium ions.
 - 3) Postural hypotension
 - 4) Relaxation of blood vessels.
- 8) The nucleolus function is
 - 1) Formation of lysosomes.
 - 2) + Formation of ribosomes.
 - 3) Synthesis of proteins.
 - 4) Synthesis of RNA.
- 9) Release of neurotransmitters into the synaptic cleft is a
 - 1) Beta adrenergic dependent process.
 - 2) + Calcium dependent process.
 - 3) Depended on the plasma sodium levels.





- 4) Potassium dependent process.
- 10) An elevation of pH and bicarbonate-concentration was 32 mEq/L and PACO2 was 36 mmHg so the acid base disorder is
 - 1) Complete respiratory acidosis.
 - 2) Incomplete respiratory disorder.
 - 3) + Metabolic alkalosis.
 - 4) Renal failure.
- 11) Vomiting in children leads to
 - 1) Acidosis.
 - 2) + Alkalosis.
 - 3) Convulsions.
 - 4) Decrease pH.
- 12) Facilatetd diffusion is
 - 1) + A carrier-mediated transport
 - 2) A type of active transport.
 - 3) Required energy of second transported molecules.
 - 4) Up-hill transport.
- 13) Calcium-magnesium pump is
 - 1) A passive transport.
 - 2) A transport inside the mitochondria.
 - 3) A type of endocytosis.
 - 4) + An active transport.
- 14) The intravenous fluids that use for treatment of acute dehydration with hypotension is
 - 1) Hypertonic solutions.
 - 2) + Isotonic solutions.
 - 3) Manitol.
 - 4) Sugar-alcholic solutions.
- 15) The complication of plasma-hyperosmolarity is
 - 1) Heart failure
 - 2) + Dehydration.
 - 3) Hepatic failure
 - 4) Death
- 16) Alkalosis is chacterized by an increase in the
 - 1) + Bicarbonate-concentration in the plasma
 - 2) Hemoglobin.
 - 3) Plasma potassium concentration
 - 4) Plasma sodium levels.
- 17) During depolarization in the nerve fiber, the ions which will diffused into the intracellular space is called
 - 1) Bicaarbonates.
 - 2) Calcium.
 - 3) Potassium.
 - 4) + Sodium.
- 18) Antiduretic hormone (ADH) is working during
 - 1) Constipation.
 - 2) Hyperthyroidism.
 - 3) Overhydration.
 - 4) + Severe vomiting.
- 19) An elevation of the uterine contraction is required elevation of oxytocin levels, this homeostatic mechanism is

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- Autonomic controlled mechanism.
- 2) Negative feedback mechanism.
- 3) + Positive feedback mechanism.
- 4) Somatic nervous system controlled mechanism.
- 20) The process of detoxification of toxic substances is performed in the
 - 1) Cellular envelop.
 - 2) Mitochondrial matrix.
 - 3) Presence of sodium ions.
 - 4) + Smooth endoplasmic reticulum
- 21) Active transport across the cell membrane needs to presence of
 - 1) Activation of peroxisomes.
 - 2) Cytoplasmic lysosomes.
 - 3) + Metabolic energy.
 - 4) Release of oxytocin hormone from the posterior pituitary gland.
- 22) The pressure which controls osmosis is called
 - 1) Arterial preasure.
 - 2) Hydrostatic pressure.
 - 3) Oncotic pressure.
 - 4) + Osmotic pressure.
- 23) The plasma pressure which is made by plasma-proteins is called
 - 1) Plasma potassium-dependent pressure.
 - 2) + Plasma oncotic pressure.
 - 3) Plasma hydrostatic pressure.
 - 4) Plasma osmotic pressure.
- 24) Plasma hyperosmolarity is appered due to an increment in the
 - 1) Calcium levels.
 - 2) Plasma enzymes levels.
 - 3) + Plasma sodium levels.
 - 4) thyroxin levels.
- 25) Completed metabolic acidosis is characterized by a decrease in the
 - 1) Arterial carbonic dioxide.
 - 2) Hemoglobin levels.
 - 3) + Plasma bicarbonate levels.
 - 4) Plasma potassium levels.
- 26) The troponin-complex is an intracellular structure which is lined in the
 - 1) + Cardiac muscles.
 - 2) Smooth muscle.
 - 3) Stomach muscles.
 - 4) Urinary bladder muscle.
- 27) Neutrophilia is process which appears during
 - 1) + Acute bacterial infection in the human body.
 - 2) Acute viral infection.
 - 3) Chronic bacterial infection.
 - 4) Chronic inflammation of the bone like tuberculosis.
- 28) The function of leukocytes is
 - 1) + Defense against infections.
 - 2) Stop of bleeding.
 - 3) Transport of carbonic dioxide.
 - 4) Transport of plasma proteins.





- 29) A clinical case (22-years-old-girl) has been referred to the Al-Thawra General hospital with clinical diagnosis of COVID-19 so the hematological markers showed
 - 1) Hemoglobin-disorders.
 - 2) + Neutropenia with lymphocytosis.
 - 3) Neutrophilia.
 - 4) Thrombocytopenia.
- 30) Transport of oxygen in the blood is performed in the presence of
 - 1) Basophils.
 - 2) Eosinophils.
 - 3) + Erythrocytes.
 - 4) Monocytes.
- 31) The pressure which exerts against the wall of the blood vessels is called
 - 1) + Blood hydrostatic pressure.
 - 2) Plasma colloid pressure.
 - 3) Plasma oncotic pressure.
 - 4) Plasma osmotic pressure.
- 32) After birth, the born baby appears with yellowish skin (in the period of the first 28 days after birth) this kind of yellowish skin (jaundice) is called
 - 1) Congenital jaundice due to common bile-duct obstruction.
 - 2) Hepatic failure.
 - 3) Hepatic jaundice.
 - 4) + Physiological neonatal jaundice.
- 33) During allergic reaction, the hematological parameters will be appeared as a
 - 1) + Eosinophilia.
 - 2) Leukocytosis.
 - 3) Lymphocytosis.
 - 4) Neutropenia.
- 34) Anemia is a deficiency in the
 - 1) + Red blood cells.
 - 2) Plasma proteins.
 - 3) Plasma sodium levels.
 - 4) Leukocytes.
- 35) Lymphocytosis is sign of
 - 1) Acute allergic reactions.
 - 2) Acute bacterial infection.
 - 3) Acute renal failure.
 - 4) + Chronic bacterial infection.
- 36) A-2-years-old-baby has been admitted at the Al-Sabeen Hospital with 2 days duration of vomiting so the acid-base disorders which will be developed is called
 - 1) + Alkalosis.
 - 2) Complete metabolic acidosis.
 - 3) Incomplete metabolic acidosis.
 - 4) Respiratory acidosis.
- 37) Exocytosis is process of which called
 - 1) A passive transport into the mitochondria.
 - 2) Cell eating.
 - 3) + Transport from the cell into extracellular spaces.
 - 4) Transport of large molecules into the inside of the cell.
- 38) A-pregnant woman was admitted at the hospital with severe vomiting so the acid-base disorder that was





developed in that leady is called

- 1) Acidosis.
- 2) + Alkalosis.
- 3) Dropping of pH.
- 4) Elevation of CO2.
- 39) During bleeding (in the living human body), the homeostatic mechanism that leads to stop bleeding is called
 - 1) A dropping in the erythrocyte-counting.
 - 2) + A positive homeostatic feed-back mechanism.
 - 3) An elevation in the total number of red blood cells.
 - 4) Elevation of total white blood cell-counts.
- 40) The function of mitochondria is
 - 1) + Formation of ATP.
 - 2) Formation of blood-brain-barrier.
 - 3) Formation of proteins.
 - 4) Transport of blood gases.