



قائمة الاسئلة

امتحان نهاية الفصل الدراسي الأول - للعام الجامعي 1446 هـ - الموافق -2025/2024م-مكلية طب وجراحة الفم والاسنان :: علم وظائف الأعضاء د. بلقيس الحريبي

- 1) Function of the Paranal sinuses is all the following Except
 - 1) - Produce mucus
 - 2) - Resonance chambers
 - 3) + Body balance
 - 4) - Lighten the skull
- 2) Gas exchange between pulmonary blood and alveoli is which of the following Events of Respiration
 - 1) - Pulmonary ventilation
 - 2) + External respiration
 - 3) - Respiratory gas transport
 - 4) - Internal respiration
- 3) Spread of impulse down septum, around ventricles in Purkinje fibers is at which point of Electrocardiogram is which of the following
 - 1) + QRS complex
 - 2) - P wave
 - 3) - T wave
 - 4) - M R wave
- 4) Lake of blood flow to the heart leads to
 - 1) - Tachycardia
 - 2) - Bradychardia
 - 3) + Fibrillation
 - 4) - Stenosis
- 5) The physiology is to deliver oxygen and nutrients and to remove carbon dioxide and other waste products correlate to which system
 - 1) + Cardiovascular System
 - 2) - Pumonary System
 - 3) - Immune System
 - 4) - Renal System
- 6) Atrial and Ventricular types of muscle contract in much the same way as skeletal muscle, except that contraction
 - 1) - Direction
 - 2) + Duration
 - 3) - Thickness
 - 4) - Electical Activity
- 7) In the left sit of the heart allows blood to flow in one direction from the areium to the vetericle, is which heart valve
 - 1) - Semilunar valves
 - 2) - Aortic semilunar valve
 - 3) + Tricuspid valve
 - 4) - Pulmonary semilunar valve
- 8) Heart Valves are characterized by the following physiology except
 - 1) - Open as blood is pumped through
 - 2) - Held in place by chordae tendineae
 - 3) - Close to prevent backflow
 - 4) + Close as blood is pumped through
- 9) In Stenosis of heart valves is characterized by which of the following except



- 1) - Incompetent valve
 - 2) - heart workload increased
 - 3) + Heart Stiffness
 - 4) - Blood Repumped
- 10) Coronary circulation is characterized by the following
- 1) + Nourish the myocardium
 - 2) - Coronary veins
 - 3) - Empties into the left Atrium
 - 4) - Vena Cava
- 11) Heart muscle cells contract due to
- 1) - With nerve impulses
 - 2) - Irregular Continuous
 - 3) + Nodal system
 - 4) - Nervous System
- 12) Special tissue sets in the pace of the right atrium
- 1) - AtrioVentricular node
 - 2) + Sinoatrial node
 - 3) - Bundle of His
 - 4) - Purkinje fibers
- 13) Amount of blood pumped by each side of the heart in one minute is which of the following
- 1) - Blood Volume
 - 2) - Stroke Volume
 - 3) - Heart rate
 - 4) + Cardiac Output
- 14) Decreased heart rate is caused by
- 1) - Sympathetic nervous system
 - 2) + High blood pressure
 - 3) - Increased venous return
 - 4) - Thyroxine
- 15) Congestive Heart Failure is characterized by the following except
- 1) - Decline in heart pumping
 - 2) + Adequate circulation
 - 3) - Stronger beats
 - 4) - Slow and steady Digitalis
- 16) Muscle milking action of blood is helping moving of the blood was used in
- 1) - Arteries
 - 2) - Capillaries
 - 3) - Heart
 - 4) + Veins
- 17) Blood Pressure at the peak of ventricular contraction is called
- 1) - Pulse
 - 2) + Systolic
 - 3) - Diastolic
 - 4) - Heart beats
- 18) Factors effect Blood Pressure are all the following except
- 1) + Central nervous System
 - 2) - Autonomic nervous System
 - 3) - Renal Renin hormone





- 4) - Temperature
- 19) Normal blood Pressure is normal range maximum reaches
- 1) - 100-60 mmHg
 - 2) - 120-70 mmHg
 - 3) + 140-80 mmHg
 - 4) - 160-85 mmHg
- 20) Largely a passive process which depends on natural lung elasticity As muscles relax
- 1) - Yawn
 - 2) - Inspiration
 - 3) + Expiration
 - 4) - Pulmoary Ventilation
- 21) Emosional Stress and Mascular Exercise can lead to which of the following blood effect
- 1) - Stimulation of Kidney
 - 2) - Stimulation of RBC from bone marrow
 - 3) + Stimulation of Sympthatic and Adrenaline
 - 4) - Production of Erthyropioetine
- 22) Thrombocytosis is a disease condision in which
- 1) - Increase White blood cells
 - 2) - Increase Red blood cells
 - 3) + Increase Platelets
 - 4) - Increase plasma
- 23) Roles of the Immune System are all of the following except
- 1) - Killing Microbes
 - 2) - Killing Tumor
 - 3) + Hemostasis
 - 4) - Destruction of abnormal and dead cells
- 24) Air that actually reaches the respiratory zone
- 1) + Functional volume
 - 2) - Residual volume
 - 3) - Inspiratory reserve volume
 - 4) - Dead space volume
- 25) Adaptive Immunity is characterized by the following except
- 1) - Mechanisms that adapt after infection
 - 2) - Second line of response
 - 3) - Incudes T- and B- lymphocyte
 - 4) + Depends on Specialized Phagocytes
- 26) Organic molecules are essential for the transport of various substances in the blood are mainly
- 1) + Proteins
 - 2) - Lipids
 - 3) - Carbohydrates
 - 4) - Metals
- 27) R.B.Cs. count in newborn is
- 1) - 4million /mm³
 - 2) - 5million /mm³
 - 3) - 6million /mm³
 - 4) + 7million/mm³
- 28) By the age of 20 years Erythropiosis site of formation is
- 1) - Vertebrae Sternum and ribs
 - 2) - Bone Marrow of all bones





- 3) Upper parts of humerus and femur Bone Marrow
- 4) Liver and Spleen
- 29) Erythropoiesis inhibition when the blood O₂ tension is
- 1) Low
- 2) Increased
- 3) Normal
- 4) Moderate
- 30) Gastric HCl is needed for Erythropoiesis to convert
- 1) Fibrinogen to Fibrin
- 2) Activation of Vitamin B12
- 3) Globin to Hemoglobin
- 4) Ferric to Ferrous
- 31) Exchange of gasses is physiology of Respiratory system which takes place within which site
- 1) Nasal Cavity
- 2) Trachea
- 3) Bronchi
- 4) Alveoli
- 32) Physiology of the Passageways to the lungs is all the following except
- 1) Purify air
- 2) Gas exchange
- 3) Warm the incoming air
- 4) Humidify the incoming air
- 33) Lateral walls of the nasal cavity have projections called conchae their physiology are all the following except
- 1) Increases surface area
- 2) Increases air turbulence
- 3) Contain Olfactory receptors
- 4) Resonance chambers for speech
- 34) Beat continuously in the opposite direction of incoming air
Expel mucus loaded with dust and other debris away from lungs is called
- 1) Conchae
- 2) Ciliated Mucosa
- 3) Epiglottis
- 4) Hyaline cartilages
- 35) Air-Blood Barrier contains Surfactant which function is which is
- 1) Gas crosses membrane barrier by diffusion
- 2) Pulmonary capillaries cover external surfaces of alveoli
- 3) squamous epithelial layer lining alveolar walls
- 4) Coats gas-exposed alveolar surfaces
- 36) Residual volume of air is
- 1) 350 ml
- 2) 150 ml
- 3) 1200 ml
- 4) 2100 ml
- 37) Air remaining in lung after expiration is called
- 1) Inspiratory reserve volume
- 2) Expiratory reserve volume
- 3) Residual volume
- 4) Dead space





- 38) The total amount of exchangeable air
- 1) + Vital Capacity
 - 2) - Tidal Volume
 - 3) - Total Lung Capacity
 - 4) - Residual Volume
- 39) Vesicular breathing sounds is
- 1) + Soft sounds of air filling alveoli
 - 2) - Bronchial sounds
 - 3) - Air rushing through trachea
 - 4) - Nasal Sound
- 40) Oxygen transport in the blood by which of the following
- 1) - Small amount Inside red blood cells by hemoglobin
 - 2) - Small amount is carried dissolved in the plasma
 - 3) + Most Transport by oxyhemoglobin form in RBC
 - 4) - Most is transported in the plasma
- 41) Eupnea is characterized by which of the following
- 1) + Normal respiratory rate
 - 2) - Increased respiratory rate
 - 3) - Extra oxygen needs
 - 4) - low respiratory rate
- 42) Neural Respiratory centers that control rate and depth of respiration are located in the brain is
- 1) - Pons
 - 2) - Hypothalamus
 - 3) + Medull oblongata
 - 4) - Pitutary Gland
- 43) Alveoli enlarge as adjacent chambers break through
Chronic inflammation promotes lung fibrosis
Airways collapse during expiration this medical case occurs in
- 1) - Smooking
 - 2) - Lung Cancer
 - 3) - Sudden Infant Death syndrome
 - 4) + Emphysema
- 44) Chronic inflamed hypersensitive bronchiole passages
- 1) - Emphysema
 - 2) - COPD
 - 3) + Asthma
 - 4) - Lung Cancer
- 45) Aging Effects on Respiration, which is the correct answer
- 1) - Blood oxygen levels increase that lead to
 - 2) - Vital capacity increases
 - 3) + Stimulating effects of carbon dioxide decreases
 - 4) - Elasticity of lungs increases
- 46) A child at the age of Five years , the normal Respiratory rate is which of the following
- 1) - 40-80 Respiration/min
 - 2) - 12-18 Respiration/min
 - 3) + 25 Respration /min
 - 4) - 30 Respiration/min
- 47) It means stoppage of bleeding and prevention of blood loss when blood vessel is injured
- 1) - Bleeding





- 2) - Clotting factor Activation
3) - Thrombus
4) Hemostasis
- 48) Vasoconstriction of injured vessel is caused by which of the following except
- 1) - Release of Serotonin
2) - Thromboxane A2
3) - Nervous reflexes
4) Platelets adhere to collagen
- 49) Repair of the damaged blood vessel is by which of the following
- 1) Platelets Growth Factor (PDGF)
2) - Serotonin
3) - Thromboxane A2
4) - Platelets Activating factors
- 50) Activation of factor VII and factor III in the presence of factor VI is by which of the following
- 1) - Iron
2) - Magnesium
3) Calcium
4) - Phosphate

