

NURS-6501N-32,Advanced Pathophysiology.2020 Spring Qtr 02/24-05/17-PT27

Exams Review Test Submission: Exam - Week 6 Midterm

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Course	NURS-6501N-32,Advanced Pathophysiology.2020 Spring Qtr 02/24-05/17-PT27
Test	Exam - Week 6 Midterm
Started	4/4/20 3:01 PM
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Status	Completed
Attempt Score	63 out of 100 points
Time Elapsed	2 hours, 0 minute out of 2 hours
Results Displayed	Submitted Answers, Incorrectly Answered Questions

Question 1

1 out of 1 points



What is the blood type of a person who is heterozygous, having A and B alleles as codominant?

Selected Answer: AB

Question 2

0 out of 1 points



The data reporting that sickle cell disease affects approximately 1 in 600 American blacks is an example of which concept?

Selected Answer: Incidence

Question 3

1 out of 1 points



A patient is having a spirometry measurement done and asks the healthcare professional to explain this test. What response by the professional is *best*?

Selected Answer:

To measure the volume and flow rate during forced expiration

Question 4

0 out of 1 points



A healthcare professional is caring for a patient undergoing chemotherapy. What is the skin-related health risk the professional should assess the patient for and be prepared to treat?

Selected Answer: Erythema

Question 5

0 out of 1 points



A professor has taught the students about the sources of increased ammonia in patients with hepatic encephalopathy. What statement by a student indicates the professor should review this material?

Selected Answer:

Ammonia-forming bacteria in the colon are sources of increased ammonia.

Question 6

1 out of 1 points



What is the second most commonly recognized genetic cause of intellectual disability?

Selected Answer: Fragile X syndrome

Question 7

1 out of 1 points



What is the role of reverse transcriptase in HIV infection?

Selected Answer: It converts RNA into double-stranded DNA.

Question 8

1 out of 1 points



Which renal change is found in older adults?

Selected Answer: Decrease in the number of nephrons

Question 9

1 out of 1 points



In regulating vascular mediators released from mast cells, the role of eosinophils is to release what?

Selected Answer:

Histaminase, which limits the effects of histamine during acute inflammation

Question 10

1 out of 1 points



Under anaerobic conditions, what process provides energy for the cell?

Selected Answer: Glycolysis

Question 11

1 out of 1 points



A patient had a motor vehicle crash and suffered critical injuries to the brainstem. What physiological responses would the healthcare professional expect to see?

Selected Answer: Pulse and blood pressure changes

Question 12

0 out of 1 points



A parent wants to know how to prevent type 1 diabetes in the newborn. The healthcare professional explains that prevention is not possible, because which of these is a major characteristic of type 1 diabetes mellitus?

Selected Answer: Insulin resistance

Question 13

0 out of 1 points



A patient has a pulmonary capillary wedge pressure of 30mmHg. What assessment finding by the healthcare professional would be *most* consistent with this reading?

Selected Answer: Rhonchi

Question 14

1 out of 1 points



A patient is having an IgE-mediated hypersensitivity reaction. What action by the healthcare professional is *best*?

Selected Answer: Give the patient an antihistamine.

Question 15

1 out of 1 points



A healthcare professional is educating a patient on asthma. The professional tells the patient that the most successful treatment for chronic asthma begins with which action?

Selected Answer: Avoidance of the causative agent

Question 16

1 out of 1 points



A student asks the healthcare professional to explain the pathophysiologic process of alcoholic cirrhosis. What statement by the professional would not be consistent with complete knowledge about this process?

Selected Answer: Inflammation and damage leading to cirrhosis begin in the bile canaliculi.

Question 17

0 out of 1 points



The pathophysiologic process of edema is related to which mechanism?

Selected Answer: Increased plasma oncotic pressure

Question 18

1 out of 1 points



How does progressive nephron injury affect angiotensin II activity?

Selected Answer: Angiotensin II activity is elevated.

Question 19

1 out of 1 points



A student asks the professor to explain what effect natriuretic peptides have during heart failure when the heart dilates. Which response by the professor is *best*?

Selected Answer: Inhibits renin and aldosterone

Question 20

0 out of 1 points



When renin is released, it is capable of which action?

Selected Answer: Direct activation of angiotensin II

Question 21

1 out of 1 points



What is the initiating event that leads to the development of atherosclerosis?

Selected Answer: Injury to the endothelial cells that line the artery walls

Question 22

1 out of 1 points



The glomerular filtration rate is directly related to which factor?

Selected Answer: Perfusion pressure in the glomerular capillaries

Question 23

1 out of 1 points



What mechanisms occur in the liver cells as a result of lipid accumulation?

Selected Answer: Increased synthesis of triglycerides from fatty acids and decreased synthesis of apoproteins

Question 24

1 out of 1 points



A person wants to know if eating only plant-based foods is advisable as a way to cut cholesterol to near-zero levels. What response by the health care professional is best?

Selected Answer: No, many hormones are made from cholesterol.

Question 25

1 out of 1 points



The Bainbridge reflex is thought to be initiated by sensory neurons in which cardiac location?

Selected Answer: Atria

Question 26

0 out of 1 points



A patient has a serum sodium level of 165 mEq/L. The healthcare professional explains that the clinical manifestations of confusion, convulsions, cerebral hemorrhage, and coma are caused by what mechanism?

Selected Answer: High sodium in the brain cells pulls water out of the blood vessels into the brain cells, causing them to swell.

Question 27

1 out of 1 points



A person has hypothyroidism. What chemical does the healthcare professional advise the person to include in the diet?

Selected Answer: Iodine

Question 28

1 out of 1 points



During the cardiac cycle, why do the aortic and pulmonic valves close after the ventricles relax?

Selected Answer: Blood fills the cusps of the valves and causes the edges to merge, closing the valves.

Question 29

1 out of 1 points



If a patient develops acidosis, the nurse would expect the oxyhemoglobin dissociation curve to react in which manner?

Selected
Answer:

Shift to the right, causing more oxygen (O₂) to be released to the cells

Question 30

1 out of 1 points



What does vomiting-induced metabolic alkalosis cause?

Selected Answer: Retention of bicarbonate to maintain the anion balance

Question 31

1 out of 1 points



What is one function of the tumor cell marker?

Selected Answer: To screen individuals at high risk for cancer

Question 32

1 out of 1 points



A patient suffered multiple traumatic injuries and received many blood transfusions within a few days of the injuries. For which medical condition should the healthcare professional monitor the patient for?

Selected Answer: Hemosiderosis

Question 33

1 out of 1 points



A pregnant woman has Graves disease. What test/s does the healthcare professional advise the woman about?

Selected Answer: Blood test for hyperthyroidism

Question 34

1 out of 1 points



A healthcare professional is caring for a patient who has a delay in electrical activity reaching the ventricle as seen on ECG. What ECG finding would the healthcare professional associate with this problem?

Selected Answer: PR interval measuring 0.28 sec

Question 35

1 out of 1 points



A healthcare professional tells a student that a patient has lost atrial kick. What would the student expect to see when examining this patient?

Selected Answer: Signs of decreased cardiac output

Question 36

0 out of 1 points



A patient has diabetes mellitus. A recent urinalysis showed increased amounts of protein. What therapy does the healthcare provider educate the patient that is specific to this disorder?

Selected Answer: More frequent blood glucose monitoring

Question 37

0 out of 1 points



A healthcare professional is caring for four patients. Which patient does the professional assess for neurogenic diabetes insipidus (DI)?

Selected Answer: Anterior pituitary tumor

Question 38

0 out of 1 points



How do free radicals cause cell damage?

Selected Answer:

Stealing the cell's oxygen to stabilize the electron, thus causing hypoxia

Question 39

1 out of 1 points



A student studying biology asks the professor to describe how the *ras* gene is involved in cancer proliferation. What explanation by the professor is *best*?

Selected Answer: A mutation in this gene allows continuous cell growth.

Question 40

1 out of 1 points



A patient has a peptic ulcer related to *h. pylori* bacteria. What treatment does the healthcare professional educate the patient on?

Selected Answer: Antibiotic therapy

Question 41

0 out of 1 points



A patient in the hospital has hypernatremia. What condition should the healthcare professional assess for?

Selected Answer: Syndrome of inappropriate antidiuretic hormone

Question 42

0 out of 1 points



A patient is in severe shock and is receiving vasopressin. A student asks the health care professional to explain the rationale for this treatment. What response by the professional is *most* accurate?

Selected Answer: Antidiuretic hormone conserves fluid when urine output is less than 20 mL/hr.

Question 43

1 out of 1 points



A student is preparing to irrigate a patient's wound and gathers supplies, including hydrogen peroxide. What response by the health care professional is *best*?

Selected Answer: Tell the student to get some normal saline instead.

Question 44

1 out of 1 points



A healthcare professional cares for older adults in a skilled nursing facility. What should the professional assess for in these individuals related to cardiovascular functioning?

Selected Answer: Increased rate of falling and dizzy spells

Question 45

0 out of 1 points



Which statement made by a student indicates the healthcare professional needs to describe the pericardium again?

Selected Answer:

The pericardium is a double-walled membranous sac that encloses the heart.

Question 46

1 out of 1 points



Where is two thirds of the body's water found?

Selected Answer: Intracellular fluid compartments

Question 47

1 out of 1 points



A healthcare professional is caring for four patients. Which patient does the professional assess for pulmonary emboli (PE) as the *priority*?

Selected Answer: Deep venous thrombosis

Question 48

0 out of 1 points



A patient has been diagnosed with a renal stone. Based on knowledge of common stone types, what self-care measure does the healthcare professional plan to teach the patient when stone analysis has returned?

Selected Answer: Increase water intake.

Question 49

1 out of 1 points



What is the inflammatory effect of nitric oxide (NO)?

Selected Answer:

Decreases mast cell function, and decreases platelet aggregation

Question 50

1 out of 1 points



What is the cause of familial hypercholesterolemia (FH)?

Selected Answer:

Reduction in the number of low-density lipoprotein (LDL) receptors on cell surfaces

Question 51

1 out of 1 points



During acidosis, the body compensates for the increase in serum hydrogen ions by shifting hydrogen ions into the cell in exchange for which electrolyte?

Selected Answer: Potassium

Question 52

1 out of 1 points



Which chamber of the heart endures the highest pressures?

Selected Answer: Left ventricle

Question 53

1 out of 1 points



When endothelial cells are injured, what alteration contributes to atherosclerosis?

Selected Answer:

Cells are unable to make the normal amount of vasodilating cytokines.

Question 54

1 out of 1 points



What is the cause of functional dysphagia?

Selected Answer: Neural or muscular disorders

Question 55

0 out of 1 points



A patient diagnosed with diabetic ketoacidosis (DKA) has the following laboratory values: arterial pH 7.20; serum glucose 500 mg/dL; positive urine glucose and ketones; serum potassium (K^+) 2 mEq/L; serum sodium (Na^+) 130 mEq/L. The

patient reports that he has been sick with the flu for 1 week. What relationship do these values have to his insulin deficiency?

Selected Answer: Increased glucose use causes the shift of fluid from the intravascular to the intracellular space.

Question 56

1 out of 1 points



What is one function of the tumor cell marker?

Selected Answer: To screen individuals at high risk for cancer

Question 57

0 out of 1 points



A student asks about the mechanism that results in type II hypersensitivity reactions. What description by the professor is *best*?

Selected Answer: Cytotoxic T lymphocytes or lymphokine-producing helper T 1 cells directly attack and destroy cellular targets.

Question 58

1 out of 1 points



What physical sign does the healthcare professional relate to the result of turbulent blood flow through a vessel?

Selected Answer: Murmur heard on auscultation

Question 59

1 out of 1 points



Which hormone is required for water to be reabsorbed in the distal tubule and collecting duct?

Selected Answer: Antidiuretic hormone

Question 60

1 out of 1 points



A patient asks the healthcare professional why tissue damage occurs in acute rejection after organ transplantation. What response by the professional is *best*?

Selected
Answer:

Th1 cells release cytokines that activate infiltrating macrophages, and cytotoxic T cells directly attack the endothelial cells of the transplanted tissue.

Question 61

1 out of 1 points



What are blood pressure variations associated with?

Selected Answer: The renin-angiotensin system's effect on vasoconstriction

Question 62

1 out of 1 points



A class of students has learned about contributing factors to duodenal ulcers. What statement indicates to the professor that the students need a review?

Selected
Answer:

Gastric emptying is slowed, causing greater exposure of the mucosa to acid.

Question 63

1 out of 1 points



Renal failure is the most common cause of which type of hyperparathyroidism?

Selected Answer: Secondary

Question 64

1 out of 1 points



An amniocentesis indicates a neural tube defect when an increase in which protein is evident?

Selected Answer: Alpha fetoprotein

Question 65

1 out of 1 points



A healthcare professional wants to determine the adequacy of a person's alveolar ventilation. What assessment finding is most important for the professional to consider?

Selected Answer: Arterial blood gas shows a PaCO₂ of 44 mmHg.

Question 66

1 out of 1 points



What is an expected change in the cardiovascular system that occurs with aging?

Selected Answer: Arterial stiffening

Question 67

1 out of 1 points



Oxygenated blood flows through which vessel?

Selected Answer: Pulmonary veins

Question 68

0 out of 1 points



A patient's urinalysis came back positive for glucose. What does the healthcare professional expect the patient's blood glucose to be at a minimum?

Selected Answer: 150 mg/dL

Question 69

1 out of 1 points



A student asks the healthcare professional to explain the function of the papillary muscles. What response by the professional is *best*?

Selected
Answer:

These muscles prevent backward expulsion of the atrioventricular valves.

Question 70

0 out of 1 points



The healthcare professional explains to a student that the amount of volume of blood in the heart is directly related to the ____ of contraction.

Selected Answer: [None Given]

Question 71

1 out of 1 points



A healthcare professional is caring for a patient who has continuous increases in left ventricular filling pressures. What disorder would the professional assess the patient for?

Selected Answer: Pulmonary edema

Question 72

1 out of 1 points



What pathologic change occurs to the kidney's glomeruli as a result of hypertension?

Selected Answer: Ischemia of the tubule

Question 73

1 out of 1 points



A student asks why some vaccinations are given orally and some are given by injection. What response by the professor is best?

Selected Answer: Each route stimulates a different lymphocyte-containing tissue, resulting in different types of cellular and humoral immunity.

Question 74

0 out of 1 points



A patient has a history of excessive use of magnesium-containing antacids and aluminum-containing antacids. What lab value does the healthcare professional correlate to this behavior?

Selected Answer: Magnesium 1.8 mg/dL

Question 75

1 out of 1 points



A student asks the healthcare professional to describe exotoxins. Which statement *by the professional is best*?

Selected Answer: Exotoxins are released during bacterial growth.

Question 76

1 out of 1 points

What are tumor cell markers?



Selected
Answer:

Hormones, enzymes, antigens, and antibodies that are produced by cancer cells

Question 77

0 out of 1 points



The acute inflammatory response is characterized by fever that is produced by the hypothalamus being affected by what?

Selected Answer: Bacterial endotoxin

Question 78

0 out of 1 points



A healthcare professional is educating a patient about asthma. The professional states that good control is necessary due to which pathophysiologic process?

Selected Answer: [None Given]

Question 79

0 out of 1 points



The student asks the professor to explain what characteristic is demonstrated by lungs with decreased compliance?

Selected Answer: Inability to diffuse oxygen

Question 80

0 out of 1 points



The action of platelet-derived growth factor is to stimulate the production of which cells?

Selected Answer: Fibroblast cells

Question 81

0 out of 1 points



A healthcare professional tells the student that a properly placed endotracheal tube for mechanical ventilation is 5 to 7 cm above the tracheal bifurcation. Where does this bifurcation occur?

Selected Answer: Bronchi

Question 82

1 out of 1 points



Surfactant produced by type II alveolar cells facilitates alveolar distention and ventilation by which mechanism?

Selected Answer: Decreasing surface tension in the alveoli

Question 83

1 out of 1 points



A patient is brought to the Emergency Department with a gunshot wound to the chest. The healthcare professional assesses an abnormality involving a pleural rupture that acts as a one-way valve, permitting air to enter on inspiration but preventing its escape by closing during expiration. What action by the healthcare professional is the *priority*?

Selected Answer: Assist with a chest tube insertion.

Question 84

0 out of 1 points



A professor has taught the students about the pathogenesis of abdominal pain. Which statement by a student indicates the professor needs to review the material?

Selected Answer: [None Given]

Question 85

1 out of 1 points



People diagnosed with neurofibromatosis have varying degrees of the condition because of which genetic principle?

Selected Answer: Expressivity

Question 86

0 out of 1 points



A student asks the professor how a faulty negative-feedback mechanism results in a hormonal imbalance. What response by the professor is best?

Selected Answer: Too little hormone production is initiated.

Question 87

1 out of 1 points



A healthcare professional is working with a person who drinks several 6-packs of beer a week. What testing does the professional encourage the person to get?

Selected Answer: Hepatic function

Question 88

0 out of 1 points



Which characteristic is the most important determinant of immunogenicity when considering the antigen?

Selected Answer: Complexity

Question 89

0 out of 1 points



A patient has portal hypertension-induced splenomegaly. Which lab value would the healthcare professional associate with this condition?

Selected Answer: High hemoglobin and hematocrit

Question 90

0 out of 1 points



Why is leakage of lysosomal enzymes during chemical injuries significant?

Selected Answer:

Influx of potassium ions into the mitochondria occurs, halting the ATP production.

Question 91

0 out of 1 points



What is the most important cause of pulmonary artery constriction?

Selected Answer: Epinephrine

Question 92

1 out of 1 points

Autocrine stimulation is the ability of cancer cells to do what?



Selected Answer: Secrete growth factors that stimulate their own growth

Question 93

1 out of 1 points



Neurotransmitters affect the postsynaptic membrane by binding to which structure?

Selected Answer: Receptors

Question 94

0 out of 1 points



A healthcare provider notes that tapping the patient's facial nerve leads to lip twitching. What electrolyte value is correlated with this finding?

Selected Answer: Ca^{++} : 12.9 mg/dL

Question 95

0 out of 1 points



During cell injury caused by hypoxia, why does an increase in the osmotic pressure within the cell occur?

Selected Answer:

An influx of glucose occurs through the injured cell membranes.

Question 96

1 out of 1 points



A female patient has been diagnosed with an uncomplicated urinary tract infection. What self-care measure does the healthcare provider teach the patient that is specific to this type of infection?

Selected Answer: After using the bathroom, wipe from front to back.

Question 97

0 out of 1 points



A healthcare professional is conducting community education on vaccinations. Which statement about vaccines does the professional include in the presentation?

Selected Answer: Most viral vaccines are made by using dead organisms.

Question 98

0 out of 1 points



A patient reports dumping syndrome after a partial gastrectomy. What does the healthcare professional teach this patient?

Selected Answer: [None Given]

Question 99

0 out of 1 points



Once they have penetrated the first line of defense, which microorganisms do natural killer (NK) cells actively attack?

Selected Answer: [None Given]

Question 100

0 out of 1 points



Free radicals play a major role in the initiation and progression of which diseases?

Selected Answer: [None Given]

Saturday, April 4, 2020 5:02:06 PM EDT

← OK