

بسم الله الرحمن الرحيم

Key answers for physiology first exam

. *for each underlined question of the following , you'll get one mark as bonus if you had the question in your exam form , regardless you answered it by the c+ answer or not.

*قام الدكتور بنشر الاسئلة مع الاجابة الصحيحة فقط (بدون جميع الخيارات).

😊 *الشكر الجزيل للدكتور نايف غرايبة على التعاون في تعليق الأسئلة حتى يتسنى لنا التعلم من أخطائنا .

Q1: when you measured the efficiency of Negative feedback of one of the control system,you got that that the gain $-27/3$, that means :

- ✓ This control system corrects 90% of the changes.
- ✓ This control system's error is 10% of the changes.

Q2: All of the following statements regarding body fluids abnormality are correct EXPECT:

- ✓ Addison's disease (hypoadosterrone), causes hypoosmotic over hydration.

Q3: of the following statements regarding body fluids abnormality are correct EXPECT:

- ✓ Excess NaCl in ECF, causes hypoosmotic over hydration.

Q4: all of the following are causes of intracellular edema EXPECT:

- ✓ Active sodium potassium pump.

Q5: how much of the extracellular fluid makes up the blood plasma?

- ✓ 20%.

Q6: A 0.5M glucose (molecular weight = 180g) contains _____ grams of glucose per liter:

- ✓ 90.

Q7: The tissue in the body containing the lowest percentage of water is the:

- ✓ Adipose (fat).

Q8: The ICF contains about _____ of the total water of the body:

✓ 2/3

Q9: When the ECF becomes hypertonic ,water will :

✓ Moves out of the cells by osmosis.

Q10: Which of the following is not a function of the kidneys?

Secreting aldosterone to regulate sodium.

Q11: the filtration unit of the kidney is the:

✓ Glomerulus.

Q12: Cells which had been equilibrated in solution A , when placed in solution B, they did not lose or gain their water volume :

✓ Two answers are correct.

Q13: Cell volume:

✓ Will increase when active NA-K transport is inhibited.

Q14: All of the following are incorrect EXPECT:

✓ Low compliance of interstitial compartment, play a role of suction between cells , that is why it is considered as a safety factor against edema.

Q15: Regarding measurement of different body fluid compartment by indicator diluting method, which of the following IS NOT CORRECTLY paired:

✓ Intracellular fluid Radioactive albumin.

Q16: a patient weighs 60 Kg, and has a fluid distribution and osmolarity (i.e. total body fluid is 50% of body weight , and 30% of body weight is intracellular , osmolarity of body fluid is 300 mOsmol/L). This individual's extracellular osmotic content would be :

✓ 36,00 mOsmoles. ((BOUNS))

Q17: A patient weighs' 60 Kg, and has a fluid distribution and osmolarity (i.e. total body fluid is 60% of the body weight, and 40% of body weight intracellular,osmolarity of body fluid is 300 mOsmol/L) This patient lost 1 Liter of isotonic ECF, then was given 3 Liters of isotonic saline, which has sufficient time to equilibrate around the body. The intracellular volume would be closed to:

✓ 24 Liters

Q18: Which of the following statements is INCORRECT regarding body fluid?

- ✓ The insensible water loss from respiratory tract can increased greatly in extensive burn.

Q19: Which of the following systems is NOT primarily involved in maintaining homeostasis?

- ✓ The immune system

Q20: Which of the following is not a potential cause of dehydration in the body?

- ✓ Excess vasopressin secretion (ADH).

Q21: Diabetes insipidus:

- ✓ Is due to vasopressin deficiency.
- ✓ Gives rise to hyper tonicity of the ECF.
- ✓ Two answers are correct.

Q22: Facilitated diffusion of a molecule into a cell would be more rapid if:

- ✓ The concentration of the molecule outside the cell increased.

Q23:during inspiration:

- ✓ Intrapulmonary pressure is less than atmospheric pressure.

Q24: Glucose transported via the GLUT carrier is characterized as

- ✓ Passive transport.

Q25: The conducting zone contains all of the following EXCEPT:

- ✓ The respiratory bronchioles.

Q26:Quite inspiration will _____ thoracic and lung volume and _____ intrapulmonary pressure:

- ✓ Increase, decrease.

Q27: The volume of gas inspired or expired in a quite respiration is the :

- ✓ Tidal volume.

Q28 What is the condition of having low blood oxygen levels :

- ✓ Hypoxemia.

Q29: Carbon monoxide is lethal because it:

- ✓ Binds hemoglobin preventing oxygen binding.

Q30: A blood pH of 7.6 is:

- ✓ Indicative of alkalosis.

Questions from other form

Q1: when you measured the efficiency of Negative feedback of one of the control system, you got that that the gain = $27/3$, that means :

- ✓ This control system error is 10% of the changes.

Q2: A 0.5M NaCl (molecular weight = 58g) contains _____ grams of glucose per liter:

- ✓ 29.

Q3: The ECF contain about _____ of total water of the body:

- ✓ 2/6

DONE By: AHMAD BABAA

إذا كان هناك أي خطأ يرجى التنبيه