8. About the body fluids , intracellular share with extracellular : A. number of cations B. concentration of protons C. osmolarity D. volume of the body

9. The highest permeability through a biological membrane is :

- A. albumin
- B. Na+
- C. Glucose
- D. O₂
- E. CO₂

10. Which of the following affects the "colloid osmotic pressure":

- A. Na+
- B. albumin
- C. Glucose

11 .about Saturday night syndrome, all the following are true except:

- A. the patient would have wrest drop
- B. someone with stabs in the brachial plexus may have it
- C. multi peak CAMP
- D. normal CAMP
- E. A person could suffer from this if he uses crutches

12. One of the following does not happen when you are stressed:

- A. activated hypothalamus
- B. increase blood pressure
- C. increase the heart rate
- D. increase glucose in the blood
- E. increase the gastric secretion

13. The enzyme that break down norepinephrine in the tissue :

- A. Catechol -O- methyl transferse
- B. monoamine oxidase
- C. acetylcholine esterase
- D. amphetamine
- E. botox

14. The glutamate receptors can bind to all of the following except:

- A. glycine
- B. magnesium
- C. GABA
- D. zinc
- E. glutamate

15. All the following are caused by vagotomy except:

- A. decrease the motility and secretion
- B. increase the heart rate
- C. constipation and slow digestion
- D. decrease the heart rate

16. All the following are used to treat axillary hyperhidrosis except:

- A. botox injection
- B. hyponosis
- C. cholinergic drug
- D. endoscopic thoracic sympectomy
- E. ant perspiration

17. CGMP dependent protein kinase convert :

- A. ATP to CAMP
- B. CGMP to GTP
- C. CAMP to GTP
- D. GTP to CAMP
- E. GTP to CGMP

18. One of the following has a receptor on the cell membrane:

- A. cortisol
- B. vitamin D
- C. Insulin
- D. thyroid
- E. NO

19. Calcium - calmodulin is :

- A. hormone
- B. Ca binding protein

20. The IP3 function is:

- A. activate phospholipase C
- B. activate protein kinase C to phosphorylate protein
- C. binds to receptor on ER to release Ca++
- D. stimulate G-protein

21. Which of the following is used to suppress pain:

- A. norepinephrine
- B. enkephaline
- C. NO
- D. Glutamic acid

22. One of the following will happens if you use diuretic drug:

- A. hyper-osmotic , dehydration
- B. hypo-osmotic, dehydration
- C. hypo-osmotic, over hydration

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